



**GRAM** 

SERIES

**PC XTREM**



EN



**USER'S GUIDE**



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## Scale connection

Connect the platform to the network using one of the following cables:

1. Power supply. Connect the scale cable to the power supply connector to power the equipment. The communication with the PC will be done only through the optional Xtrem WiFi board.
2. K3X, K3iX indicator. Connect the scale cable to the indicator connector. The Xtrem scale will be powered directly from the indicator and will make the connection with the CP through the optional Xtrem WiFi board.
3. Xtrem-PC cable. Connect the connector of the platform with the optional cable, and this to the PC. The communication will be done through a COM port of the PC.

## Description of the initial screen



GRAM\_04

Name of the Xtrem equipment connected to the network.



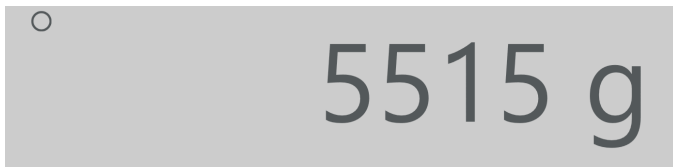
Search for computers connected to the network.



Open the application configuration menu.



Version number.



Weight display screen.



Stability symbol.



Open the configuration menu of the connected Xtrem device.



Key for resetting the equipment reading.



Key to show a high-resolution reading on the display screen.



Key to freeze and leave the last stable reading on the display.



Key for storing the weights in the internal database (CSV extension).



Key for selecting a preset tare value.



Key for setting the current weight value as a tare.



Key for displaying the Gross Weight or Net Weight value alternately.



QR code for information on the displayed weight value.



Password lock for modifying the internal parameter configuration of the connected equipment.

XTREM 337426

Serial number of the connected equipment.

Max 30000g Min 20g e=1g

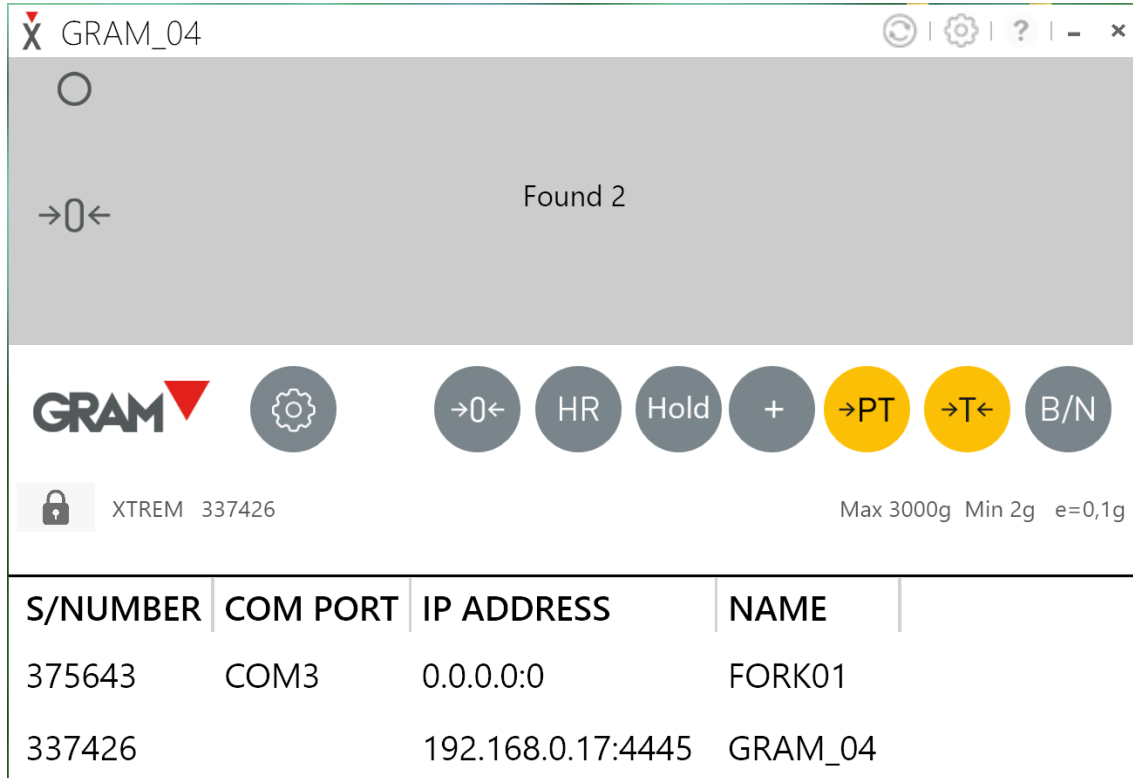
Maximum capacity (Max), minimum legal weight (Min) and division or reading step (e) of the equipment.

## Initial zeroing

When the equipment is switched on, it will automatically be reset. Afterwards, the Xtrem PC application will be opened and an automatic search of all the equipment connected to the

network and to the PC will be started. If there are more than one equipment connected, then a list of the equipment will be displayed, and one of them must be selected. If there is only one Xtrem equipment, then the communication with that equipment will be started.

Example screen of two equipments found:



Automatic zeroing at start-up requires the balance to remain stable for at least 5 seconds.

While the balance is moving, the display -00- will be maintained for a maximum of 10 seconds.

If this time is exceeded without achieving a stable display, the display will show the weight value on the scale.

If the weight on the load receptor is more than 10% of the maximum capacity of the scale, the error message "Err 0" will be displayed and then the weight on the scale.

## Use of the equipment

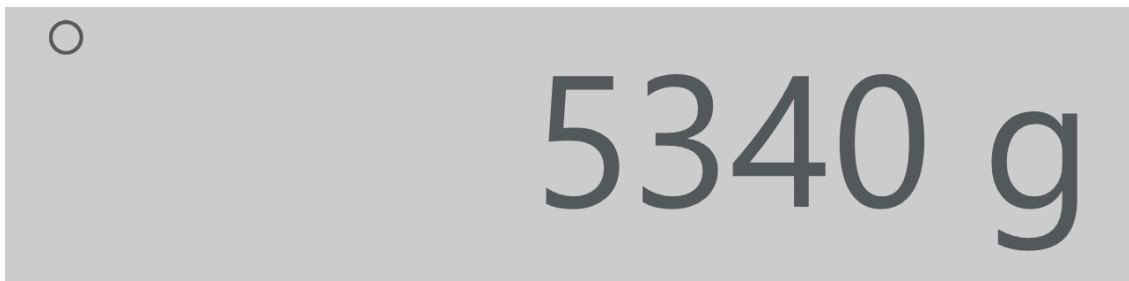
Once the equipment is turned on and connected to the PC Xtrem application, the symbol

→0← will indicate that the scale is at zero, i.e., no load is placed on the platform.

The indicator ○ shows the stability condition, i.e., there is no external influence factor (such as a current of air, or vibration from a nearby engine) that is producing a significant disturbance.

## Weighing

To determine the weight of any object within the maximum weighing range, place it on the load receptor platform: The display will show a zero readout and the stability display will disappear; you will see the weight value increase until the stability display is visible again. The value displayed is the result of the measurement.



## Use of the tare

### Normal Mode



Pressing this key activates the tare function: The scale stores the weight currently on the load receptor and subtracts it from the total weight until the tare function is deactivated or cancelled. The tare function is active only when the weight is stable. If the stability indicator is off, pressing this key has no effect.

To cancel the tare function, you must press the tare button again with the weighing pan empty.

### Pre-Tare Mode




Pressing this key opens a dialog for entering a manual tare value using the numeric keypad. This value is subtracted from the weight value of the platform. To cancel it, press the key



with the empty scale.


## Net/Gross weight



When the tare function is activated, the gross or net weight is displayed alternately. The display indicator  shows the net value. Without this indication, the value displayed is always Gross.


## Puesta a cero del equipo



When this key is pressed, it is reset to zero. The scale is considered to be "at zero" when the weight on the load receptor is less than  $\frac{1}{4}$  of the division or resolution. While the scale is being zeroed, the display shows .

When the scale is at "0", the automatic zero tracking device is in operation. This function automatically resets the scale to zero when there are variations of less than  $\frac{1}{4}$  of division if they do not add up to more than  $\frac{1}{2}$  division during one second. This function can be disabled or set in the "Initial zero setting" and "Initial zero setting range" options in the configuration



menu. Pressing the key  also deactivates the tare if it is activated. The zero setting of the scale is limited to the value indicated in the "Initial zero setting range" menu, which is the percentage over its maximum capacity. If this range is exceeded, the error message "Err0" is displayed.

## High Resolution (HR)



Pressing this key activates the high resolution function, showing the screen one more digit of resolution. This reading can be more unstable, since it means increasing the standard resolution of the equipment by 10 times. It is indicated within an inverted L to warn of this extra display.



## Hold Mode




Pressing this key activates the "HOLD" mode. The display remains frozen at the current reading to indicate that the function has been activated, and the key remains in light grey. To deactivate it, press it again. When this mode is activated, the display always shows the weight of the last load on the pan. This means that even if you remove the load from the pan, the display will still show the last weight displayed.

## Recording the weight values

To record weighing data, including date, time, item, gross weight, net weight, tare, user and



customer, press and the records will be added with the configuration indicated in

the Log File section of the application menu by pressing  .

## Configuring the Application

Press  to access the application's configuration menu.


### Submenu Log File

#### Log File

Allows you to choose the location of the file where the records are stored:

Log file	C:\ProgramData\GRAM\WeighingLog.csv
	<input type="button" value="browse"/>



Pressing  opens the application's file browser window, and you can modify the name and choose another location if necessary.

#### Auto Log

With the selected function (YES), you can select the minimum value in time of stability for the system to save a record of the weight. If the value is lower than the selected one, the value is not saved.

Auto Log	<input checked="" type="checkbox"/>	Yes	Min stability time (ms)	<input type="text" value="100"/>
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#### Force unload

With this function selected (YES), a value is only recorded if the Xtrem device has previously been set to "0" plus a minimum number of weight units indicated in the box. With the "YES" selection, if when removing the object to be weighed and subsequently placing another one, the equipment has not reached the minimum selected, the weighing will not be recorded.

Force unload	<input type="checkbox"/>	No	Min weight for recording	<input type="text" value="10"/>
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#### Sound

Turns the PC sound on or off when recording a record.

Sound	<input checked="" type="checkbox"/>	ON
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#### Data logger mode

With the function selected (YES), it stores the data sent by the Xtrem unit, with the interval selected in the box.

Data logger mode	<input type="checkbox"/>	No	Timelapse (ms)	<input type="text" value="1000"/>
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#### Submenú QR Code

##### QR Code

It shows a QR code with the information of the weighing on display, to facilitate the export of this data to another device equipped with a 2D scanner.

Show QR code on stability	<input checked="" type="checkbox"/>	Yes
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## Submenú Connect

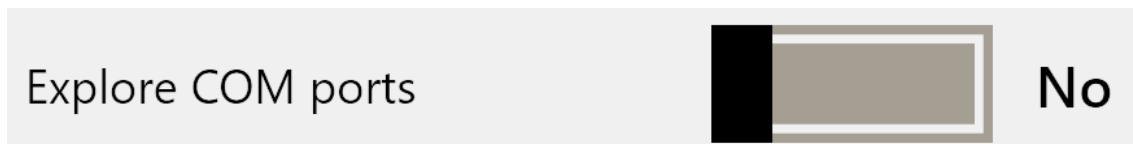
### Default equipment

When you press the key and press the confirmation key in the following dialog box, the Xtrem device shown on the top line is selected as the default device, and when you start the application next time, it will not start scanning the connected Xtrem devices, but will automatically connect to the device to which it is connected.



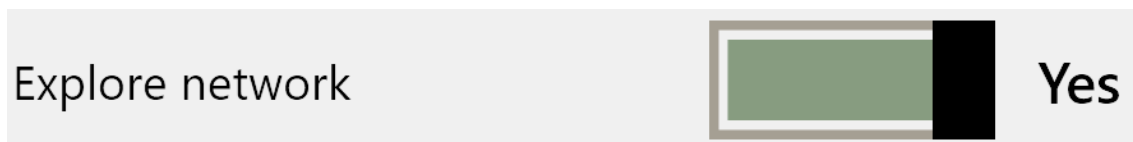
### Explore COM ports

With this option selected, when starting the equipment (if the previous option is not defined), a search for Xtrem equipment will be started on the PC's COM ports.



### Explore network

Selecting it and starting the device (if the "Set current scale ..." option is not defined), a search for Xtrem devices in the network to which the PC is connected will be started.



### UDP remote port (Xtrem side)

It allows you to modify the UDP port to which the Xtrem device is connected, and it must match the same port of the device for the communication to be established.




### UDP local port (PC side)

It allows to modify the UDP port to which the PC is connected, and it must coincide with the same port selected in the Xtrem equipment that the communication can be established.


UDP local port (PC side)	5555
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## Configuration of the connected Xtrem equipment



Press  to access the Xtrem equipment configuration menu. The information shown is only consultative, it is not possible to modify it unless the user password is introduced.



To do this, press the symbol  located in the lower left part of the screen. A window will be opened and the following numerical password must be introduced: "1009".

The padlock will be shown open and it will be possible to access the edition of the following parameters.

### General submenú

#### General

Name: change the name of the Xtrem team.

Name	GRAM_04
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Serial number: indicates the serial number (cannot be changed)

Serial number	337426
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Device ID: Device number (the system numbers them, if more than one is connected)

Device Id	1
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Type: Type of connected equipment.

Type	XTREM
------	-------

Software version: Software version of the Xtrem equipment.

Software version

2003

Sealing switch state: Shows the status of the switch of the Xtrem equipment. If sealed, it does not allow modifications to the equipment (it is sealed to prevent unauthorized alterations to the instrument's characteristics, as in the case of equipment subject to metrological control of the administration).

Sealing switch state



Not sealed

### Zero options

Initial zero setting: It carries out the zero setting at the start of the equipment if it is within the range of "Initial zero setting" with the option in "ON"; setting it in "OFF" at the start of the equipment, the zero level is not reset and it indicates the level before the switch-off.

Initial zero setting



ON

Initial zero setting range (%Max): Sets the percentage of the initial zero value. Pressing the "-" or "+" keys increases or decreases this value. This selection is only valid if the "Zero options" option is activated.

Initial zero setting range (%Max)

— + %10

Zero tracking: Maintains the zero level of the equipment by constantly readjusting small differences caused by temperature variations or other causes (ON). With the selection OFF the equipment does not make these adjustments and could show non-zero readings with the equipment without load on the pan or platform.

Zero tracking



ON

Zero Tracking Range: Adjusts the allowable level of continuous zeroing. Pressing the "-" or "+" key increases or decreases this value. This selection is only valid if "Zero tracking" is activated.

Zero tracking range

— + 1

### Tare options

Auto tare: When a stable weight is detected, the equipment automatically tares. When the pan or platform is unloaded, the tare value is not displayed (returns to zero).



Tare on stability: When this function is activated, the equipment must show a stable reading when a tare is set. With the "OFF" option, the equipment tares under any stability condition.



Preset tare mode: With the "ON" selection, the instrument remains tared after the load receptor is emptied. When the scale is emptied, the display shows the tare value with a negative sign. If you select "OFF", the tare is automatically switched off when the weighing platform is emptied.



#### Filter options

Filter level: Adapts the display reading to possible fluctuations in the load on the scale or external disturbances, such as drafts or vibrations. Pressing the "-" or "+" keys increases or decreases this value, which can vary between 1 and 7; the lower value shows a faster reading but is sensitive to variations, and the higher value shows a much more stable reading but is less fast; intermediate values show averages between the extreme values.



Livestock filter: An additional filter for weighing live animals or people, which, when moving on the load receptor, causes disturbances in the weight display by exerting a variable force on the platform or pan of the Xtrem equipment. When this filter is activated in conjunction with the digital filter, an average display is obtained that eliminates the extreme values that occur when moving on the load receptor.



Stability range: Value of 1/10 of the resolution of the Xtrem equipment between which the equipment shows the stability indicator. This value is taken into account when sending external data or making records with stable values. It is recommended that it is "5" or "10",

but it can also be any other value.

Stability range	10
-----------------	----

Output rate (ms): Time interval in milliseconds between the sending of two consecutive data from the Xtrem equipment. This value can be decreased to make the refreshing of the weight information faster at the cost of a higher consumption of PC CPU and/or local network resources. If the value is increased, the system resources are reduced at the cost of a display with less refreshment, which offers a lesser visual experience.

Output rate (ms)	100
------------------	-----

#### Com port

COM Port: Shows the connected COM port, if it is.

COM Port	
----------	--

BaudRate: Allows to select the speed of the connection of the Xtrem equipment to the PC when it is connected to a serial port. You must choose one of the options from the drop-down menu.

BaudRate	115200 ▼
----------	----------

#### Network as AP (operational only with Wifi option on the computer)

SSID as Access point: Name of the equipment's Access Point in the network (SSID). The name of the device can be modified from this window, but there cannot be two devices with the same name.

SSID as access point	GRAM_04
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Password: Protection keyword for the connection to the device's WiFi Access Point, must be noted if modified. **Attention!** Once modified, without the correct keyword, the unit cannot be accessed anymore.

Password	12345678
----------	----------

IP base address: IP of the equipment. It can be modified, but only V4 class C IP addresses can be used.

IP base address	192.168.4.1
-----------------	-------------

Access Point: Starts the unit as an access point, which is the available connection by default. This option can be disabled, but in that case the unit should be connected to a network access point as a workstation (STA).

Access Point	<input checked="" type="checkbox"/>	Enabled
--------------	-------------------------------------	---------

Reset network: Starts and updates the current Network as AP configuration on the Xtrem computer.

<input checked="" type="checkbox"/> reset network using current settings
--

TCP server port (XTREM): Shows and allows to modify the TCP server port of the Xtrem computer.

TCP server port (XTREM)	6666
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UDP remote port (PC side): Shows and allows to modify the PC UDP remote port.

UDP remote port (PC side)	5555
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UDP local port (Xtrem side): Shows and allows to modify the local UDP port of the Xtrem equipment.

UDP local port (XTREM side)	4444
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Network as STA (operativo solamente con opción Wifi en el equipo)

Network AP SSID: Name of the network (SSID) Enter the name of the WiFi network you want to connect to.

Network AP SSID	GRAM I&D
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AP password: introducir la palabra clave (password) de la red seleccionada.

AP password	rTD20324Nbp0
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Network IP address: enter the IP of the Xtrem equipment in the selected network. It must be within the range of that network. This data can be assigned automatically with the DHCP option.

Network IP address	192.168.0.17
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Network DHCP: Automatically assigns an IP address to the Xtrem unit with the option "ON". With the selection in "OFF" the IP must be entered manually.

<input checked="" type="checkbox"/>	ON
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Reset network: Starts and updates the current Network as STA configuration in the Xtrem device.

reset network using current settings
--------------------------------------

TCP server port (XTREM): Shows the TCP port of the Xtrem equipment as STA, it cannot be changed.

TCP server port (XTREM)	6666
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UDP remote port (PC side): Display the PC UDP port as STA, cannot be changed.

UDP remote port (PC side)	5556
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UDP local port (XTREM side): Display the UDP port of the Xtrem computer as STA, cannot be changed.

UDP local port (XTREM side)	4445
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Scale definition (Xtrem equipment configuration)

Weighing unit: You can choose between grams (g), kilograms (kg), ounces (oz) and pounds (lb).

Weighing unit	<input type="text" value="g"/>
---------------	--------------------------------

Decimal places: Number of decimal places of the equipment, ses can enter up to a maximum of 4 decimal places.



Decimal places	3
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Max: Maximum capacity of the equipment, can be a value of maximum seven digits.

Max	300000
-----	--------

Allow negative: With the option in "YES" allows to show negative values.

Allow negative
<input checked="" type="checkbox"/> YES

e: Division or resolution of the equipment, it must be selected from the list.

e	1 ▼
---	-----

Initial zero (A/DC cts on last adjustment):

Initial zero (A/DC cts on last adjustment)	46546
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Slope divider: Shows the number of internal accounts of the Xtrem equipment AD converter for each division or resolution of the equipment.

Slope divider	18,3198
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A/DC cts x e (cts): Displays the number of counts without decimals and allows to readjust them, modifying then the calibration setting of the equipment in a fine way. By pressing the "-" or "+" keys, the equipment increases or decreases the indicated reading. The keys work in the opposite way to the result obtained, increasing the value decreases it and vice versa.

A/DC cts x e (cts)	18	- +	18,3198
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Input signal: Shows the voltage value in mV read by the Xtrem equipment from the sensor or set of sensors at its input. It shows it in uV/e and in mV.

Input signal	0.34 $\mu\text{V/e}$	2.691 mV
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Current A/DC cts: Shows the current value of internal counts of the A/DC converter.

Current A/D C cts	144449
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GEO Adjust: Allows to introduce the value of the gravity zone where the equipment is adjusted in order to keep this adjustment in the use zone, which is introduced in the following window. This value should be taken from the Gravity Value Table.

GEO Adjust	16
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GEO Local: This option allows to introduce the value of the gravity zone of use of the Xtrem equipment, in order to obtain a correct reading according to the zone of use. Take the value from the Gravity Value Table.

GEO Local	16
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ADJUST ZERO: When pressed, it makes the adjustment of the calibration of the equipment, taking into account the adjusted gravity zones. If the adjustment by zones is not needed, then the same zones must be selected in the two previous windows. To make the adjustment, the Xtrem equipment must be connected, with a minimum preheating of 30 minutes for a more precise adjustment.

**ADJUST ZERO**

ADJUST SPAN: You must first perform the ADJUST ZERO function. Then, place a setting value greater than 50% of the maximum capacity (MAX) selected, place the masses or known weight on the weighing pan or platform of the Xtrem equipment, press the key and enter the value of the masses or masses. Confirm and the equipment will be set accordingly.

**ADJUST SPAN**

## Gravity Value Table

Geographical latitude in the northern or southern hemisphere in degrees and Wminutes.	Elevation above sea level in meters										
	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	11730
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

## Displaying the records

Press the bottom scroller of the application screen



A screen like the one below is displayed (with or without other data):

GRAM\_04 ⊙ | ⚙ | ? | - | ×

○  
→T←  
→0←  
NET

0.0 g

GRAM ▼
⚙
→0←
HR
Hold
+
→PT
→T←
B/N

**WEIGHING RECORD SETTINGS**

Number  RES Total

Familia de producto	Espumoso
Subfamilia	Rosado
Año de cosecha	2018

Brut	Tare	Net	Un	Familia	Subfamilia	Año de cosecha
32,6	0	32,6	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
11,5	0	11,5	g	Gram	0005689901	Robert Bosch GMBH
1000	0	1000	g	Gram	0005689901	Robert Bosch GMBH
32,6	0	32,6	g	Gram	0005689901	Robert Bosch GMBH
32,6	0	32,6	g	Gram	0005689901	Robert Bosch GMBH
52,6	0	52,6	g	Gram	0005689901	Robert Bosch GMBH

⏪

▶
⏩

🔒 XTREM 337426
Max 3000g Min 2g e=0,1g

This window will be displayed with the following data:

Number: It is the count of a totalization of weights. It increases with each record (when pressing



) and it is set to zero when pressing the button



In the view of the weighing register the last 100 weighings recorded are shown. The number of weighings in the register is limited by the storage capacity of the computer.

Number

55

Total: It increases with each weight added to the record, and is reset to zero by pressing the



button

Total

124121,101

Fields to be defined by the user:

There are three fields to be defined by the user. To change the field name, point the PC mouse pointer at them and double click on them to open a window where you can change the field name:

Field #1 Campo 1

Field #2 Campo 2

Field #3 Campo 3

Field data entry screen:

Enter Field #2 label

LABEL

Subfamilia

OK

Cancel

Example of edition:

Familia de producto	Espumoso
Subfamilia	Rosado
Año de cosecha	2018

Timestamp: Shows the date and time of the weighs that have been captured by the application. Only the time is shown on the screen, and the complete date is shown in the CSV file.

Timestamp

Brut: Shows the gross weight of the weighments captured by the application

Brut

Tare: Displays the tare value of the equipment, if selected

Tare

Net: Displays the net weight of the weight value.

Net

Un: muestra la unidad de pesada.

Un

Un: Displays the weighing unit.

User

User: Displays the name of the user entered.

Item

Customer: Displays the name of the customer or other necessary data.

# Customer

Key to access the CSV file: Pressing the key opens the menu of the Log file application.

## WEIGHING RECORD SETTINGS

Press the key

browse

And a dialog box will appear with the name of the CSV file where the data is stored. To access this file easily, we recommend changing its location, using another directory on the PC, since the current location is not accessible through the file browser, it is hidden.

Once the file location has been changed, this file can be accessed using the PC's file browser. All records stored by all Xtrem PC applications on this PC are saved in the same file, allowing to have all data from several Xtrem units centralized in the same CSV file. A routine backup should be performed to protect this data. The columns H, I and j of the example show the fields "Field#1, Field#2 and Field#3 modified.

Example CSV file:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Timestamp	MachineName	UserName	ScaleName	SerialNumber	IP_Address	ComPort	Family products	Subfamily	Year	Brut	Tare	Net	Unit	IsManualTare
2	15:13,3	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Wine	Red	2019	464	0	464	g	False
3	11:46,6	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Wine	Red	2019	1000	0	1000	g	False
4	41:55,1	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Wine	Red	2019	1084	0	1084	g	False
5	53:20,6	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Wine	Red	2019	1000	0	1000	g	False
6	57:45,5	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2019	1000	0	1000	g	False
7	27:40,2	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2018	5515	0	5515	g	False
8	35:34,7	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2018	5515	0	5515	g	False
9	46:13,8	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2018	5515	0	5515	g	False
10	55:58,6	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2018	5513	0	5513	g	False
11	57:44,1	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Spanish Cava	Sparkling	2018	5515	0	5515	g	False
12	06:22,2	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Italy lambrusco	Sparkling	2020	5512	0	5512	g	False
13	06:23,4	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Italy lambrusco	Sparkling	2020	5515	0	5515	g	False
14	06:43,9	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Italy lambrusco	Sparkling	2020	5514	0	5514	g	False
15	10:35,0	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		Italy lambrusco	Sparkling	2020	5512	0	5512	g	False
16	10:35,9	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	5514	0	5514	g	False
17	09:27,5	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	5513	0	5513	g	False
18	51:31,9	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	2,223	0	2,223	kg	False
19	12:55,0	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,999	0	1,999	kg	False
20	12:59,7	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	2,219	0	2,219	kg	False
21	28:56,8	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	2,219	0	2,219	kg	False
22	36:26,5	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,219	0	1,219	kg	False
23	36:27,3	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,22	0	1,22	kg	False
24	36:28,4	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	0,22	0	0,22	kg	False
25	36:28,4	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	0,22	0	0,22	kg	False
26	38:46,1	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	0,999	0	0,999	kg	False
27	38:52,1	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,221	0	1,221	kg	False
28	45:21,6	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,22	0	1,22	kg	False
29	45:25,2	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1,22	0	1,22	kg	False
30	11:40,6	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1000	0	1000	g	False
31	19:59,8	FRANCESC	Richard R. Bosch	GRAM_04	337426	192.168.0.17		French wine	White	2019	1219	0	1219	g	False

Closing the records data: To stop viewing these data, press the lower tab of the application.





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