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# INSTRUCTION MANUAL

## CIMA CONTROL PIG



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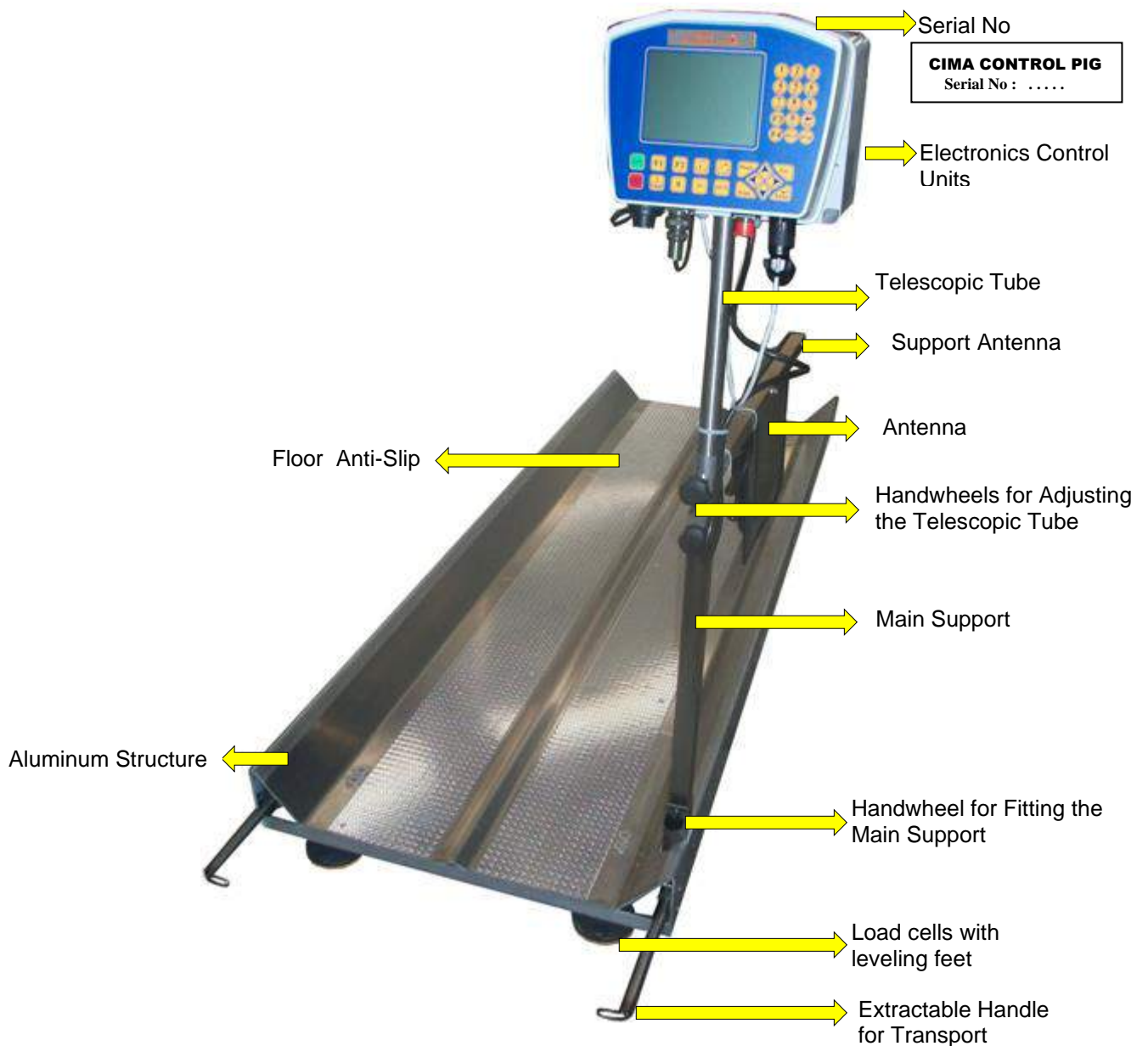
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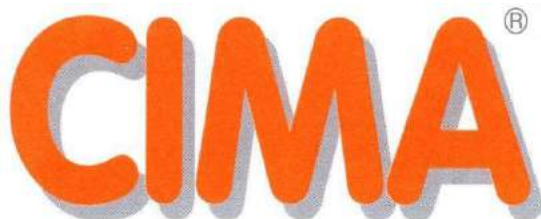
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# FUNCTIONS AND FEATURES

The CIMA CONTROL PIG indicator weighs the animals during their passage on the platform and has memory functions of the detected weights. It allows acquiring and storing more weight data, supplying the total amount and the average of weighed animals. This electronics allows to store up to 200 acquisitions that can be saved in special files in a format compatible to Excel and downloaded on SUB Pen Drive.

The CIMA CONTROL PIG indicator has the following features:





























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- Weighing system for pig in motion.
- Total calculation of weighed animals.
- Average calculation of the weighed animals.
- Weighing storage in an archive menu.
- Data storage on USB Pen Drive USB in CSV format (Excel compatible format)
- Storage of up to 200 single weighings.
- On-line Help for each screenpage/function of the indicator
- Management of a numerical keyboard with writing mode equal to the one of mobile phones.
- Surcharges control system
- Possibility to manage International measurement units
- Calibration through sample weight
- Possibility to adjust contrast
- Possibility to adjust light
- Internal clock
- Power supply detection
- Multilingual
- Possibility to see the read in reverse mode
- Indicator settings and calibrations backup.

## TECHNICAL FEATURES





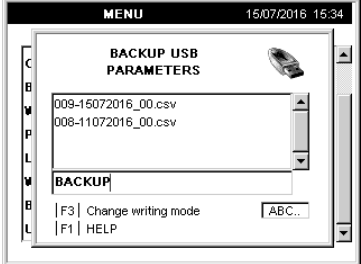











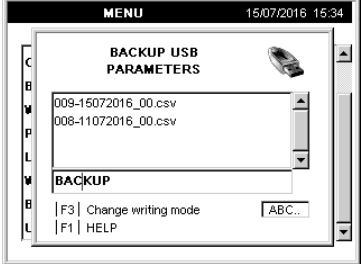
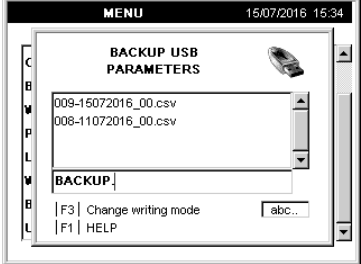
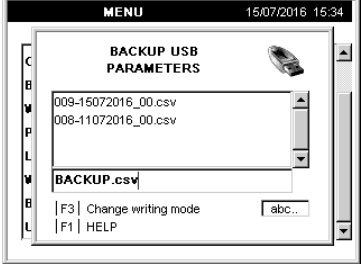
<b>High sensitivity membrane keyboard</b>	
<b>Cast aluminium casing</b>	
<b>Protection class</b>	IP 68 with plug-in connectors
<b>Size</b>	L 258 x H 212 x P 75
<b>Weight</b>	2000 grams aprox.
<b>Display</b>	LCD backlit Black/White 320x240 pixel/dot (5.7") with 16 grey levels
<b>Memory</b>	Eeprom (non volatile)
<b>Resolution</b>	135.000 dd
<b>Working conditions</b>	-30 °C + 70 °C
<b>Relative Humidity</b>	95 %
<b>Power supply</b>	From 10 up to 32 Vdc
<b>Absorbed power</b>	4 VA max
<b>Load cells Nr.</b>	max. 12 (350 Ω) in parallel
<b>Load cells power supply</b>	5 Vcc
<b>Reading error</b>	+/- Kg. 1 out of Kg. 10.000
<b>Display data field</b>	+99999 ; -99999
<b>Measuring range</b>	± 2 mV; ± 20 mV
<b>Conversion speed</b>	80 / sec.
<b>Serial output</b>	1 fixed; 2 optional
<b>Consumption at 12 Vdc</b>	250 mA (in case of 4 connected load cells)
<b>Internal battery</b>	Lithium batteries 8,4V 5200mA
<b>Battery life</b>	8 hours of operation, according to the animals passage
<b>Display visible in full sunlight</b>	
<b>Clock / Calendar</b>	
<b>Protection against radiofrequency interferences</b>	
<b>Elimination of power supply interferences</b>	
<b>Signalling of low tension</b>	

# KEYS FUNCTIONS

 ON	 OFF
 ACCESS TO USER MENU	 ENTER
 EXIT	 SET THE NAME OF THE WEIGHING SET TIME FOR SPRAY MARKER
 SHIFTING THE CURSOR UPWARDS PASS TO THE PREVIOUS PAGE	 SHIFTING THE CURSOR DOWNWARDS PASS TO THE FOLLOWING PAGE
 SHIFTING THE CURSOR TO THE LEFT	 SHIFTING THE CURSOR TO THE RIGHT
 SYSTEM TARE ZEROING / WEIGHT NEW ANIMAL	 NOT USED
 TAGS READING	 CLOSING AND STORAGE OF THE CURRENT WEIGHING
 NOT USED	 NOT USED
 NOT USED	 NOT USED
 CHANGE WRITING MODE (CAPITAL LETTERS, SMALL LETTERS, NUMBERS)	 VISUALIZATION OF MULTILINK MODULES ALARMS
  ENTRY OF NUMBER AND LETTERS BY MEANS OF THE NUMERIC KEYBOARD	 ENTRY OF NUMBER "0" OR SPACE
 DELETE CHARACTER (DELETE)	 WEIGHING BLOCK
 ENTRY OF DECIMAL POINT ONLINE HELP	

**ATTENTION: According to the menu, some keys may have either additional or different functions. For more information, please read the indicator online help, or go on reading this document.**

# USE OF DIRECTIONAL AND NUMERIC KEYBOARD KEYS

FUNCTION	OPERATION	DISPLAY
<p>To use the scale function in the best way, it is better to know the keys to move in all menus and submenus. Please find here below all functions of different keys to move.</p>		
<b>Cursor movement</b>	<p>To move the cursor highlighted on the display, please use the following keys:</p> <ul style="list-style-type: none"> <li>➤  Shift upwards</li> <li>➤  Shift downwards</li> <li>➤  Shift to the left</li> <li>➤  Shift to the right</li> </ul>	
<b>Enter the selected menu / Confirm / Changes saving</b>	<p>Press the key .</p>	
<b>Exit from the previous screen page / Undo changes</b>	<p>Press the key .</p>	
<b>Numeric Keyboard use</b>	<p>The insertion of characters by means of the numeric keyboard is done by the repeated pressure of the keys, by following the silk-screen on the keyboard.</p> <p>For instance, to write the word "CIAO" you need to press for three times the key , for three times the key , for one time the key  and for three times the key .</p> <p>On the numeric keyboard there are also some special keys with the following functions:</p> <ul style="list-style-type: none"> <li>➤  changes the writing mode, in some menus you can choose between CAPITAL LETTERS (ABC), small letters (abc) or numbers (123)</li> <li>➤  To write the number "0" or an empty space</li> <li>➤  delete the previous character</li> <li>➤  inserts the character "-"</li> <li>➤  inserts the decimal point</li> </ul>	  

# ENTRY OF TEXT AND NUMBERS

It is possible to enter text and numbers by means of the numeric keyboard.










By repeatedly pressing the keys, it is possible to enter other characters than the ones present on the keyboard.

If the weighing indicator is used in Russian language, the representation in this language is displayed on the numerical keyboard.










If the weighing indicator is used in Chinese language for the text and numbers insertion the editing system PinYin is used (Please read the *ADDENDUM CHINESE LANGUAGE*).

- Capital letters **ABC (123)**
- Small letters **abc (123)**
- Numbers **123**

In the following you'll find the character corresponding to the number of pressures of the key in CAPITAL letters

KEY	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12
	.	,	?	!	1							
	A	B	C	Ä	Á	À	Â	Ã	Ç	2		
	D	E	F	Ë	É	È	Ê	3				
	G	H	I	Ï	Í	Ì	Î	4				
	J	K	L	5								
	M	N	O	Ö	Ñ	Ó	Ò	Ô	Õ	6		
	P	Q	R	S	Š	7						
	T	U	V	Ü	Ú	Ù	Û	8				
	W	X	Y	Z	Ÿ	Ý	Æ	Œ	Ø	Å	Ž	9

and SMALL letters:

KEY	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11
	.	,	?	!	1						
	a	b	c	ä	á	à	â	ã	ç	2	
	d	e	f	ë	é	è	ê	3			
	g	h	i	ï	í	ì	î	4			
	j	k	l	5							
	m	n	o	ö	ñ	ó	ò	ô	õ	ö	6
	p	q	r	s	š	ß	7				
	t	u	v	ü	ú	ù	û	8			
	w	x	y	z	ÿ	ý	æ	œ	ø	å	9



## **ANIMALS IDENTIFICATION** **TRANSPONDER READING (OPTIONAL)**

With the CONTROL PIG series weighing indicators it is possible to associate the weights of each animal with a unique identifier.

The identification of the animals through the use of Transponder (Optional) allows to keep the weight value under control throughout the life of the animal, therefore to evaluate the daily weight variations.

To use the identification of the animals it is necessary to purchase the accessory (Optional) to read the Transponders.



During weighing the weight of each animal will be associated with a number identified by the tag detected by the transponder and made available:

- via export to USB PenDrive in files in CSV format (Excel compatible)
- to be sent in real time to a Remote Server (Send Remote) via WiFi connection (802.11) with WLAN PIG (optional)

NOTE: to be sent in real time to a Remote Server (Send Remote) via WiFi connection (802.11) with WLAN PIG (optional). For the menus, submenus and functions in which there are no differences in the setting and use of the weighing computer, the explanation will be unique


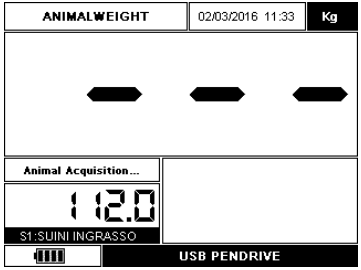


# TO START – BASIC FUNCTIONS

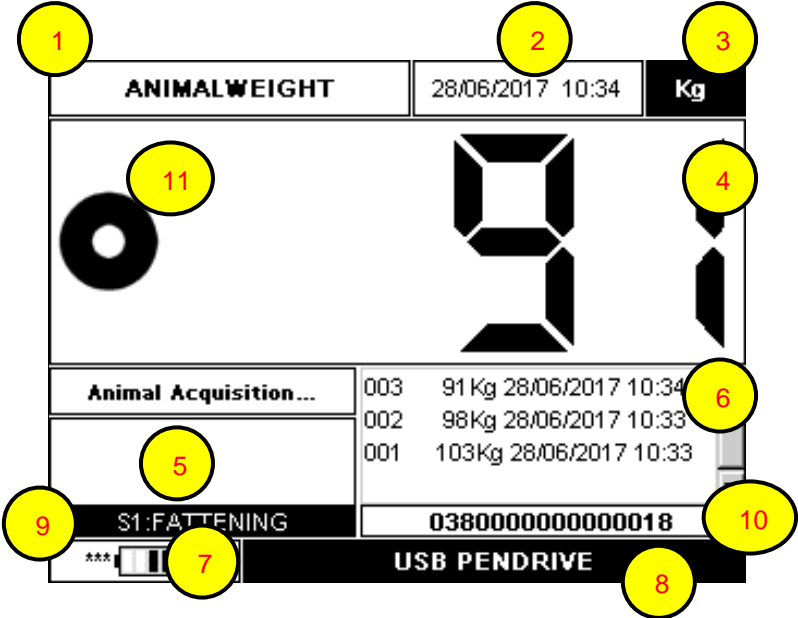
FUNCTION	OPERATION	DISPLAY
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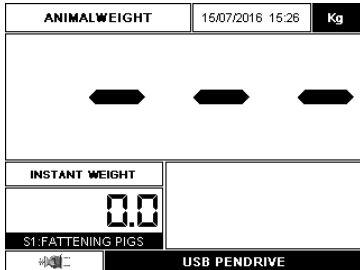

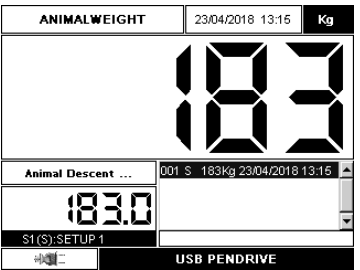
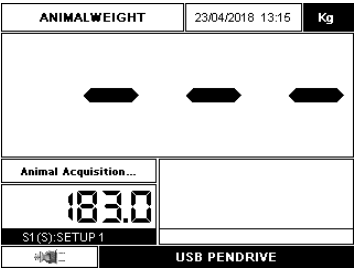
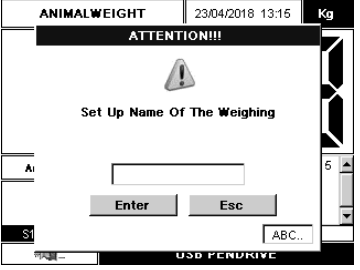
**The operations described below concern the basic functioning of the weighing indicator.**




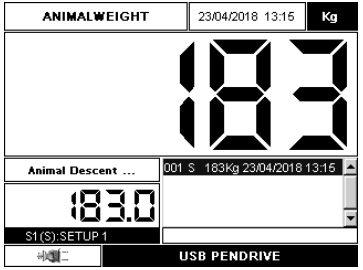
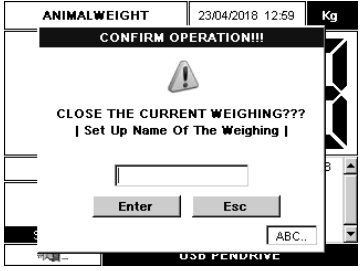
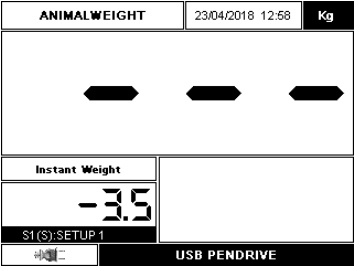
**For extra information, please go on reading this document.**


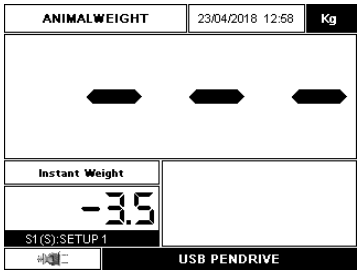
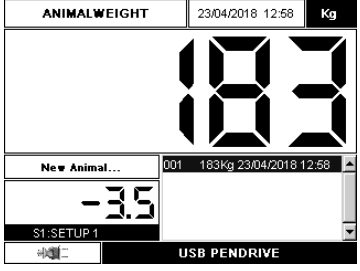

<b>Switching ON</b>	<p>Press </p> <p>The weighing indicator is equipped with an internal battery that can operate for 8 hours.</p> <p>By external powering of the weighing indicator, the internal battery recharges automatically.</p>	
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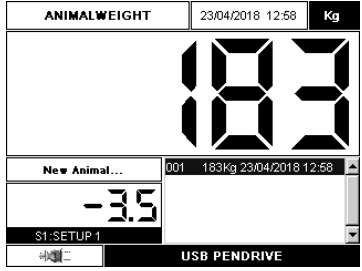
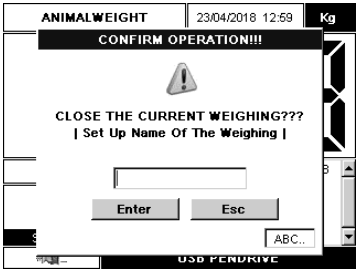
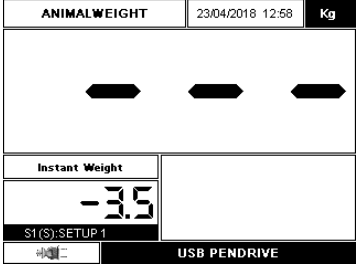


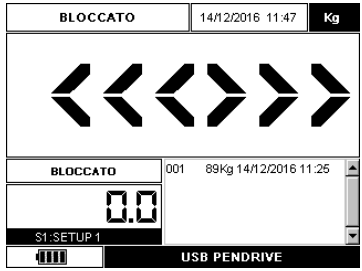



<b>Switching OFF</b>	<p>Press </p>	
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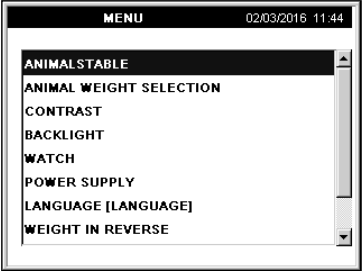
<p><b><u>ANIMAL WEIGHT</u></b></p> <p style="color: red;"><b>TRANSPONDER READING (Optional)</b></p>	
	<ol style="list-style-type: none"> <li>1. Information about the present screen page ANIMAL WEIGHT</li> <li>2. Current date and time</li> <li>3. Measurement unit used by the indicator</li> <li>4. Animal weight value, detected after the passage on the platform.</li> <li>5. Instantaneous weight detected by the platform.</li> <li>6. List of the weight last acquisitions done.</li> <li>7. Battery status indication. When the weighing indicator is in charge, the image of a plug will appear.</li> <li>8. Installed software release in the weighing indicator and Pen Drive USB insertion indication.</li> <li>9. Identifies the ANIMALS WEIGHT SELECTION</li> <li>10. Tags ID optional</li> <li>11. Symbol of the acquired Tags. optional</li> </ol>

FUNCTION	OPERATION	DISPLAY
<p><b>MOMENTARY WEIGHT</b></p> <p><b>Momentary weight reset</b></p>	<p>In the <b>MOMENTARY WEIGHT</b> page screen it is displayed the measured weight value of the animal on the weighing indicator.</p> <p>To reset the measured weight value please keep pressed the key  for 3 seconds until the confirmation message appears.</p> <p>Press  to confirm the tare reset: the momentary weight value will be reset.</p> <p>Differently press  to undo the operation.</p>	 
<p><b><u>ANIMAL WEIGHT</u></b></p> <p><b>“STILL ANIMALS” WEIGHING MODE</b></p> <p><b>Start</b></p>	<p>To start the "STILL ANIMALS" WEIGHING MODE and display the weight value of the animal, it is necessary that this goes up to the platform for sufficient time for the acquisition.</p> <p>At the top of the screen the weight of the last animal weighed on the platform will be displayed.</p> <p>In the lower part on the right side of the screen the list of the latest acquisitions will be displayed.</p> <p>In the ACQUISITIONS LIST, all the collected data of the individual weighs will be displayed, among which:</p> <ul style="list-style-type: none"> <li>➤ the progressive number of the weigh</li> <li>➤ letter (S) indicates that the weighing was carried out using the "STILL ANIMALS" mode</li> <li>➤ the animal weight</li> <li>➤ the date and time of when the acquisition was done.</li> </ul> <p>In the lower part on the left side will be displayed the instantaneous weight which will flash when the weight is considered stable on the platform.</p> <p>Pressing , before start, it is possible to set the name of "STILL ANIMALS" WEIGHING MODE.</p> <p><u>NOTE: it is possible to insert a label (name) with maximum 12 characters</u></p> <p>Entering the name before starting it is necessary to send data in real time to a Remote Server (Send Remote) via WiFi connection (802.11) with WLAN PIG (optional).</p>	  

FUNCTION	OPERATION	DISPLAY
<p><b><u>ANIMAL WEIGHT</u></b></p> <p><b>“STILL ANIMALS” WEIGHING MODE</b></p> <p><b>Conclusion</b></p>	<p>Once the "STILL ANIMALS" WEIGHING MODE has been started, you need to press  to end it up.</p> <p>Once the key is pressed, a message confirming the closure will appear and the request to provide a label (name) which, in the WEIGHINGS HISTORY menu, will be associated with all the acquisitions of the current "STILL ANIMALS" WEIGHING MODE.</p> <p>The chosen label will be displayed both in the WEIGHINGS HISTORY menu and in the CSV file exported on PenDrive USB.</p> <p>Press  after inserting the label and to confirm the conclusion of the "STILL ANIMALS" WEIGHING MODE.</p> <p>Otherwise press  to cancel the operation.</p> <p>Once the "STILL ANIMALS" WEIGHING MODE has been concluded, it will be possible to start a new one.</p> <p><u>NOTE: it is possible to insert a label (name) with maximum 12 characters</u></p>	  

FUNCTION	OPERATION	DISPLAY
<p><b><u>ANIMAL WEIGHT</u></b></p> <p><b>“ANIMALS IN MOTION” WEIGHING MODE</b></p> <p><b>Start</b></p>	<p>To start the "ANIMALS IN MOTION" WEIGHING MODE and display the weight value of the animal it is necessary that this passes by on the platform.</p> <p>At the top of the screen the weight of the last animal passed by on the platform will be displayed.</p> <p>In the lower part on the right side of the screen the list of the latest acquisitions will be displayed.</p> <p>In the ACQUISITIONS LIST, all the collected data of the individual weighs will be displayed, among which:</p> <ul style="list-style-type: none"> <li>➤ the progressive number of the weighing</li> <li>➤ the animal weight</li> <li>➤ the date and time of when the acquisition was done..</li> </ul> <p>In the lower part on the left side will be displayed the instantaneous weight on the platform.</p> <p>Pressing , before start, it is possible to set the name of "ANIMALS IN MOTION" WEIGHING MODE.</p> <p><u>NOTE: it is possible to insert a label (name) with a maximum length of 12 characters</u></p> <p><u>Entering the name before starting it is necessary to send data in real time to a Remote Server (Send Remote) via WiFi connection (802.11) with WLAN PIG (optional).</u></p>	  

FUNCTION	OPERATION	DISPLAY
<p><b><u>ANIMAL WEIGHT</u></b></p> <p><b>“ANIMALS IN MOTION” WEIGHING MODE</b></p> <p><b>Conclusion</b></p>	<p>Once the "ANIMALS IN MOTION" WEIGHING MODE has been started, press  to end it.</p> <p>Once the key is pressed, a message confirming the closure will appear and the request to provide a label (name) which, in the WEIGHINGS HISTORY menu, will be associated with all the acquisitions of the current " ANIMALS IN MOTION " WEIGHING MODE..</p> <p>The chosen label will be displayed both in the WEIGHS HISTORY menu and in the CSV file exported on PenDrive USB.</p> <p>Press  after inserting the label and to confirm the conclusion of the "ANIMALS IN MOTION" WEIGHING MODE</p> <p>Otherwise press  to cancel the operation.</p> <p>Once the "ANIMALS IN MOTION" WEIGHING MODE has been concluded, it will be possible to start a new one.</p> <p><i><u>NOTE: it is possible to insert a label (name) with maximum 12 characters</u></i></p>	  
<p><b>Weighing Block</b></p>	<p>Pressing key  screenshot will appear to the right and the weights of the animals will not be detected anymore.</p> <p>Press again  to return into working mode.</p> <p>Use this mode when you want to make pass the animals on the platform without them being weighed.</p>	 
<p><b><u>WLAN PIG</u></b> <b>(Optional)</b> <b>Accessory alarms</b></p>	<p>If the PIG WLAN accessory is connected to the indicator, in the event of communication problems with it, an alarm message will be displayed on the work screen in the area usually showing the software release of the indicator.</p> <p>To exit, press .</p>	

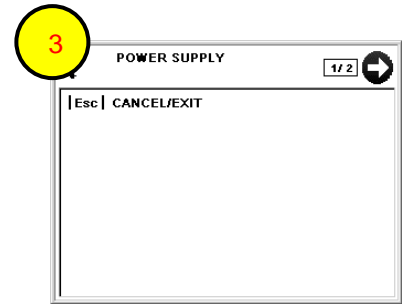
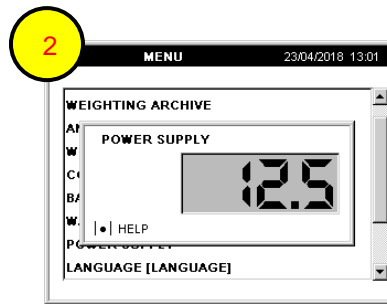
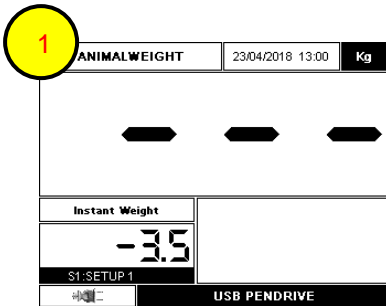
FUNCTION	OPERATION	DISPLAY
<p align="center"><b><u>MENU</u></b>  <b>Access to the Main Menu</b></p>	<p>Press  to enter the main menu.  Please remind that it is not possible to enter any menu until the weighing in progress is not stored.</p>	


# HELP



In the CONTROL PIG weighing computer there are screens to help the user to understand better:


- the functionality of the keys
- operation, settings and any options.

The Help screens are contextual and show descriptions of the menu that the user is viewing.




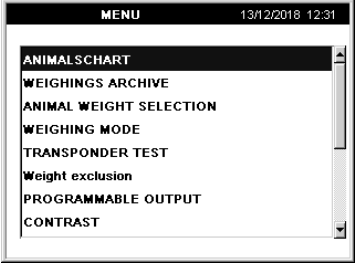
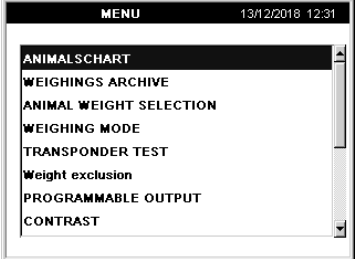
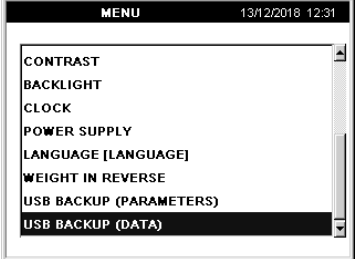
1. The HELP function is available in the menus with the word "|. | HELP "on the bottom left. To view the HELP pages, press .
2. The first page defines the keys and the functions assigned to them in the menu.
3. On the second page and any subsequent ones are explained the menu operation, the settings and any configurable options.

To scroll the pages use  .

To exit, simply press .



# MAIN MENU

FUNCTION	OPERATION	DISPLAY
<p><b><u>MAIN MENU</u></b></p>	<p>In this <b>MENU</b> is reported the list of the submenus that can be selected to enter a part of the weighing indicator functions.</p> <p>In this screen page you can enter from the <b>WORKING MENU</b> by pressing .</p>	
<p><b><u>MAIN MENU</u></b> Submenu</p>	<p>Inside the main menu the following submenus are available:</p> <ul style="list-style-type: none"> <li>✓ ANIMALS CHART</li> <li>✓ WEIGHINGS HISTORY</li> <li>✓ ANIMAL WEIGHT SELECTION</li> <li>✓ WEIGHING MODE</li> <li>✓ TRANSPONDER TEST (Optional)</li> <li>✓ WEIGHING EXCLUSION (Optional)</li> <li>✓ PROGRAMMABLE OUTPUT</li> <li>✓ CONTRAST</li> <li>✓ BACKLIGHT</li> <li>✓ CLOCK</li> <li>✓ POWER SUPPLY</li> <li>✓ LANGUAGE (LANGUAGE)</li> <li>✓ WEIGHT IN REVERSE</li> <li>✓ USB BACKUP (PARAMETERS)</li> <li>✓ USB BACKUP (DATA)</li> </ul>	 

# SUBMENU

FUNCTION	OPERATION	DISPLAY																																						
<p><b><u>ANIMALS CHART</u></b></p>	<p>The <b>ANIMALS CHART</b> submenu displays all the acquisitions of the CURRENT WEIGHING.</p> <p>If no weighing has been started, the ANIMAL CHART will be empty.</p> <p style="text-align: center;"> </p> <p>Using keys  and  it is possible to scroll through the various weighings starting from the most recent.</p> <p>In addition to the data in the table:</p> <ul style="list-style-type: none"> <li>➤ Progressive number</li> <li>➤ Weight acquisition</li> <li>➤ Identification number of the transponder detected during acquisition (Optional)</li> <li>➤ Date and time of acquisition</li> </ul> <p>in the submenu there are other data:</p> <ul style="list-style-type: none"> <li>➤ TOTAL NUMBER of the animals weighed so far</li> <li>➤ TOTAL SUM of the weighings</li> <li>➤ AVERAGE WEIGHT of the animals weighed so far</li> </ul>	<p style="text-align: center; color: red;"><b>WITHOUT TRANSPONDER READER</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold;">ANIMAL STABLE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>N.</th> <th>WEIGHT</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>005</td><td>68Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>004</td><td>61Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>003</td><td>61Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>002</td><td>69Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>001</td><td>71Kg</td><td>23/10/2017 16:35</td></tr> </tbody> </table> <p>ANIM. NR. 0 TOTAL SUM --- AVERAGE WEIGHT ---</p> <p style="text-align: right;">[T/Clear] Delete weighing</p> </div> <p style="text-align: center; color: red;"><b>WITH TRANSPONDER READER</b></p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-weight: bold;">ANIMAL STABLE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>N.</th> <th>PESO</th> <th>WEIGHT</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>004</td><td>82Kg</td><td>0980000000170350</td><td>25/10/2017 16:10</td></tr> <tr><td>003</td><td>79Kg</td><td>0980000000163705</td><td>25/10/2017 16:09</td></tr> <tr><td>002</td><td>74Kg</td><td>0989000000351563</td><td>25/10/2017 16:09</td></tr> <tr><td>001</td><td>82Kg</td><td>0989000000351570</td><td>25/10/2017 15:57</td></tr> </tbody> </table> <p>ANIM. NR. 0 TOTAL SUM --- AVERAGE WEIGHT ---</p> <p style="text-align: right;">[T/Clear] Delete weighing</p> </div>	N.	WEIGHT	DATE	005	68Kg	25/10/2017 17:07	004	61Kg	25/10/2017 17:07	003	61Kg	25/10/2017 17:07	002	69Kg	25/10/2017 17:07	001	71Kg	23/10/2017 16:35	N.	PESO	WEIGHT	DATE	004	82Kg	0980000000170350	25/10/2017 16:10	003	79Kg	0980000000163705	25/10/2017 16:09	002	74Kg	0989000000351563	25/10/2017 16:09	001	82Kg	0989000000351570	25/10/2017 15:57
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<p><b><u>ANIMALS CHART</u></b> cancellation of the single weighing</p>	<p>In this submenu it is possible to delete a single weighing in the table.</p> <p>To delete the single weighing, select it using keys , ,  once highlighted, press for 3 seconds  until the confirmation message appears.</p> <p>Press  to confirm the cancellation of the single weighing.</p> <p>Otherwise press  to cancel the operation.</p>	<p style="text-align: center; color: red;"><b>WITHOUT TRANSPONDER READER</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold;">ANIMAL STABLE</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p style="font-weight: bold; color: red;">CONFIRM OPERATION!!!</p> <p style="font-size: 2em; color: gray;">!</p> <p>Delete the selected weighing???</p> <p style="text-align: center;"> <input type="button" value="Enter"/> <input type="button" value="Esc"/> </p> </div> <p style="text-align: right;">[T/Clear] Delete weighing</p> </div> <p style="text-align: center; color: red;"><b>WITH TRANSPONDER READER</b></p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-weight: bold;">TABELLA ANIMALI</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>N.</th> <th>PESO</th> <th>DATA</th> </tr> </thead> <tbody> <tr><td>005</td><td>68Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>004</td><td>61Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>003</td><td>---</td><td>25/10/2017 17:07</td></tr> <tr><td>002</td><td>69Kg</td><td>25/10/2017 17:07</td></tr> <tr><td>001</td><td>71Kg</td><td>23/10/2017 16:35</td></tr> </tbody> </table> <p>NUMERO ANIMALI 4 TOTALE SOMMA 259Kg PESO MEDIO 64.7Kg</p> <p style="text-align: right;">[T/Clear] Elimina Pesata</p> </div> <p style="text-align: center; color: red;"><b>WITH TRANSPONDER READER</b></p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-weight: bold;">TABELLA ANIMALI</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>N.</th> <th>PESO</th> <th>ID</th> <th>DATA</th> </tr> </thead> <tbody> <tr><td>004</td><td>82Kg</td><td>0980000000170350</td><td>25/10/2017 16:10</td></tr> <tr><td>003</td><td>79Kg</td><td>0980000000163705</td><td>25/10/2017 16:09</td></tr> <tr><td>002</td><td>---</td><td>0989000000351563</td><td>25/10/2017 16:09</td></tr> <tr><td>001</td><td>82Kg</td><td>0989000000351570</td><td>25/10/2017 15:57</td></tr> </tbody> </table> <p>NUMERO ANIMALI 3 TOTALE SOMMA 239Kg PESO MEDIO 79.7Kg</p> <p style="text-align: right;">[T/Clear] Elimina Pesata</p> </div>	N.	PESO	DATA	005	68Kg	25/10/2017 17:07	004	61Kg	25/10/2017 17:07	003	---	25/10/2017 17:07	002	69Kg	25/10/2017 17:07	001	71Kg	23/10/2017 16:35	N.	PESO	ID	DATA	004	82Kg	0980000000170350	25/10/2017 16:10	003	79Kg	0980000000163705	25/10/2017 16:09	002	---	0989000000351563	25/10/2017 16:09	001	82Kg	0989000000351570	25/10/2017 15:57
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**FUNCTION**


**OPERATION**

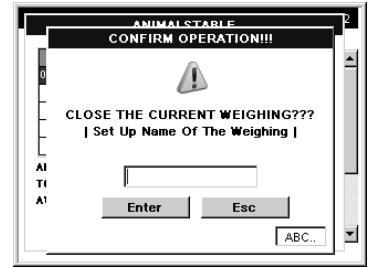
**DISPLAY**

**ANIMALS CHART**

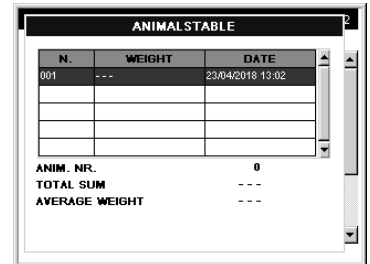
**AUTOMATIC WEIGHING**

Conclusion

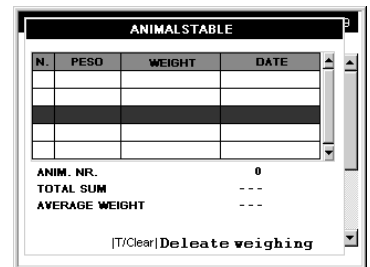
In this submenu it is possible to conclude the AUTOMATIC WEIGHING by pressing . After pressing the key you will see a closure confirmation message and the request to provide a label (name). Once the AUTOMATIC WEIGHING has been completed, the ANIMAL TABLE is reset.



**WITHOUT TRANSPONDER READER**





**WITH TRANSPONDER READER**



**WEIGHINGS ARCHIVE**

When you access the menu, the last carried out weighing is displayed.

To view the previous ones use keys  and .

For each weighing a table with the following data is displayed:

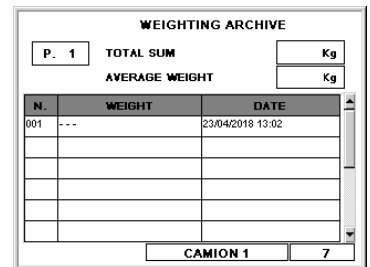
- ✓ Number of the displayed page
- ✓ TOTAL SUM of the weighing
- ✓ AVERAGE WEIGHT
- ✓ List of individual animal acquisitions:
- ✓ Progressive number
- ✓ Weight acquisition
- ✓ Identification number of the transponder detected during acquisition (Optional)
- ✓ Date and time of the acquisition
- ✓ Acquisitions total number

If the acquisitions are too many and should be displayed on several pages, it is possible to scroll through the various pages of the selected weighing by pressing keys

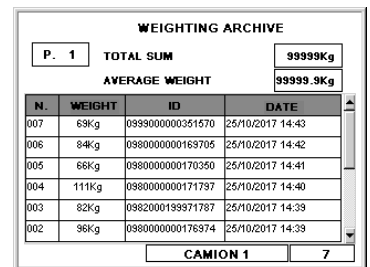




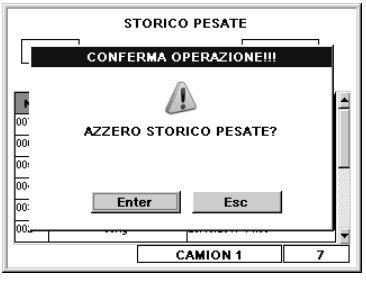



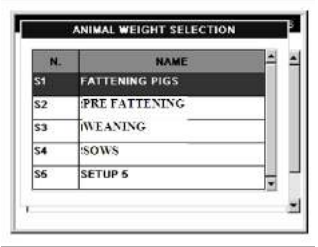



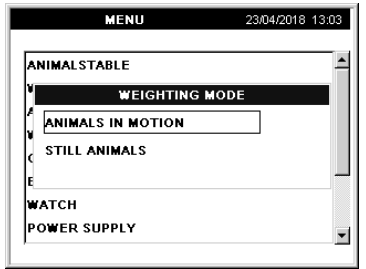
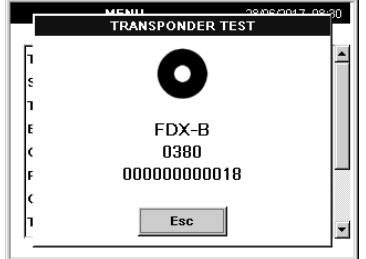


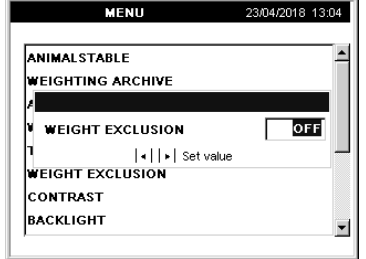
The weighing computer is able to store up to 2000 single weight acquisitions and a maximum of 200 for each weighing. Once the storage space has been used up, the indicator automatically deletes the oldest acquisitions.










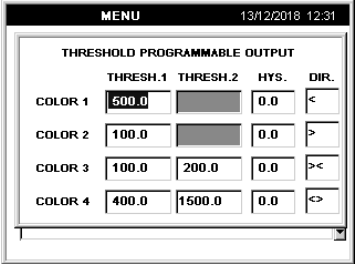




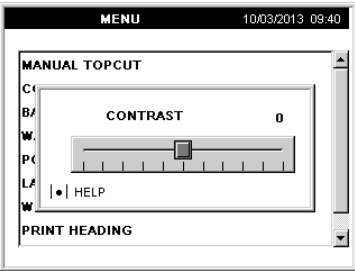




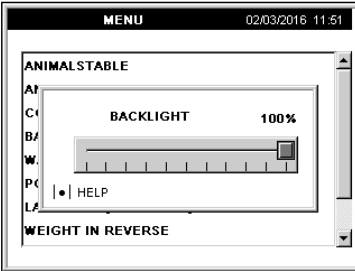
**WITHOUT TRANSPONDER READER**


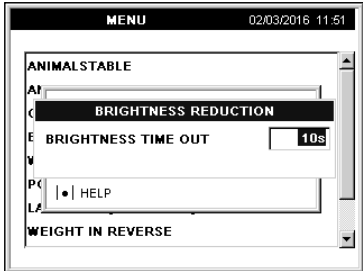



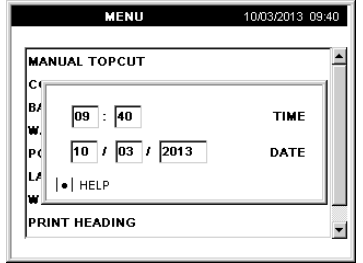







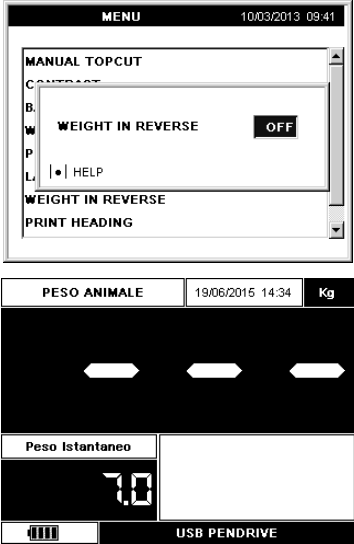

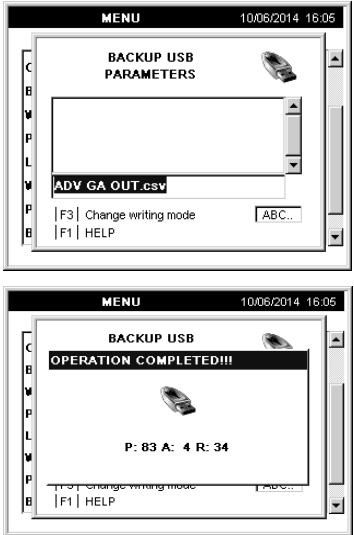
**WITH TRANSPONDER READER**




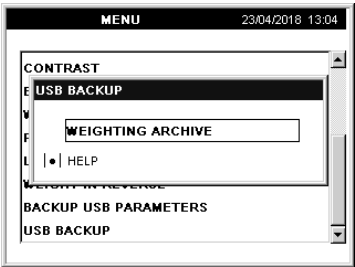


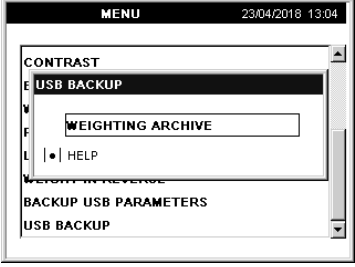
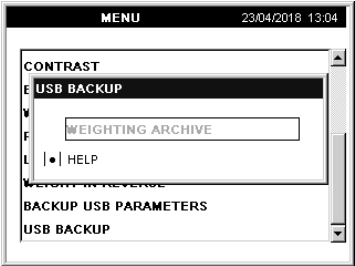
FUNCTION	OPERATION	DISPLAY
<p><b><u>WEIGHINGS ARCHIVE</u></b></p> <p>Reset</p>	<p>It is possible to reset the weighings history; to do this it is necessary to hold down the keys  and  for a few seconds until the operation confirmation screen appears. Once the screen appears, confirm the operation or cancel everything.</p> <p><i>NOTE: this operation is irreversible and cancels ALL the weighings stored inside the weighing computer, including those not displayed.</i></p>	
<p><b><u>ANIMAL WEIGHT SELECTION</u></b></p>	<p>In this menu we can select among 5 different animal weight settings.</p> <p>In order to select press the arrows  , and then memorize the modification with the key .</p>	
<p><b><u>WEIGHING MODE</u></b></p>	<p>In this submenu it is possible to choose the weighing mode to be used:</p> <ul style="list-style-type: none"> <li>• ANIMALS IN MOTION</li> <li>• STILL ANIMALS</li> </ul> <p>To select the weighing mode use keys  and .</p> <p>To confirm the choice press .</p>	
<p><b><u>TRANSPONDER TEST</u></b></p> <p><b>TRANSPONDER READING (Optional)</b></p>	<p>Inside the <b>TRANSPONDER TEST</b> submenu, we can do a transponder test.</p> <p>Once entered in this menu, by bringing the transponder near the relevant reader, some data relevant to the transponder will appear on the screen (as transponder model and number).</p>	
<p><b><u>WEIGHING EXCLUSION</u></b></p> <p><b>TRANSPONDER READING (Optional)</b></p>	<p>The <b>WEIGHING EXCLUSION</b> submenu is only visible in the animal identification mode by active transponder reader.</p> <p>In the submenu it is possible to enable (ON) or disable (OFF) the exclusion of the weighing using keys  and .</p> <p>If the <b>WEIGHT EXCLUSION</b> function is activated (ON) the weight of the animal will not be displayed but only the transponder ID will be stored.</p> <p>By default this parameter is set to OFF.</p>	

FUNCTION	OPERATION	DISPLAY																									
<p><b>PROGRAMMABLE OUTPUT</b> <b>COLOR SPRAY RELAY</b> <b>(Optional)</b></p>	<p>The <b>PROGRAMMABLE OUTPUT</b> submenu can only be used in ANIMALS IN MOTION mode. It is also necessary to have the device Multilink DRIVE 8 / CP to use this feature. In the submenu it is possible to set the intervention thresholds of the COLOR SPRAY RELAYS and the direction of the thresholds. You can set the following directions for the relays:</p> <ul style="list-style-type: none"> <li>• OFF = Threshold relay disabled.</li> <li>• &lt; : lower = Threshold relay activated when the weight is below threshold 1.</li> <li>• &gt; : higher = Threshold relay activated when the weight is above threshold 1.</li> <li>• &lt;&gt; : external values = Threshold Relay activated when the weight is above threshold 1 and below threshold 2.</li> <li>• &gt;&lt; : values included = Threshold relay activated when the weight is below threshold 1 or above threshold 2.</li> </ul> <p>To activate the relays set the direction of the relays (DIR.) from OFF to the desired direction by using  .</p> <p>Then confirm your selection with . Then set the threshold values according to the same methodology.</p> <p>Pressing , to set the color spraying time and using   for change time</p> <p>Pressing  to enable the ultrasonic sensor and using   for select ON or OFF</p> <p><u>NOTE: The hysteresis (IST.) must be equal to 0. In case it is different from 0, contact service.</u></p>	 <table border="1"> <thead> <tr> <th></th> <th>THRESH.1</th> <th>THRESH.2</th> <th>HYS.</th> <th>DIR.</th> </tr> </thead> <tbody> <tr> <td>COLOR 1</td> <td>500.0</td> <td></td> <td>0.0</td> <td>&lt;</td> </tr> <tr> <td>COLOR 2</td> <td>100.0</td> <td></td> <td>0.0</td> <td>&gt;</td> </tr> <tr> <td>COLOR 3</td> <td>100.0</td> <td>200.0</td> <td>0.0</td> <td>&gt;&lt;</td> </tr> <tr> <td>COLOR 4</td> <td>400.0</td> <td>1500.0</td> <td>0.0</td> <td>&lt;&gt;</td> </tr> </tbody> </table>		THRESH.1	THRESH.2	HYS.	DIR.	COLOR 1	500.0		0.0	<	COLOR 2	100.0		0.0	>	COLOR 3	100.0	200.0	0.0	><	COLOR 4	400.0	1500.0	0.0	<>
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<p><b>CONTRAST</b></p>	<p>In the submenu <b>CONTRAST</b> it is possible to set out the contrast level of the LCD display.</p> <p>Use the arrows  and  to set out the display contrast.</p> <p>Press  to save changes or  to exit the submenu without saving.</p>																										
<p><b>BACKLIGHT</b></p>	<p>In the submenu <b>BACKLIGHT</b> it is possible to set out the level of luminosity of the LCD display.</p> <p>Use   to adjust the luminosity of the display.</p> <p>Press  to save the changes, or  to leave the submenu without saving any change.</p>																										


FUNCTION	OPERATION	DISPLAY
<p><b><u>BACKLIGHT</u></b></p> <p><b><u>BRIGHTNESS REDUCTION</u></b></p> <p><b><u>INTERNAL BATTERY</u></b></p>	<p>This feature is only available when the indicator is powered by internal lithium batteries (version with internal batteries) and allows to lengthen the discharge time of the batteries.</p> <p>In the scales with internal battery, the BRIGHTNESS REDUCTION function can be accessed by pressing key .</p> <p>You can set a time in seconds after which the display brightness is reduced if there is no weight change in the ANIMAL WEIGHT screen or if no key is pressed.</p> <p>By setting the seconds to 0, the BRIGHTNESS REDUCTION function is disabled.</p> <p><i><u>NOTE: when the scale is powered by an external source, the BRIGHTNESS REDUCTION function is disabled and the light is always on at maximum as if the parameter were OFF.</u></i></p>	
<p><b><u>CLOCK</u></b></p>	<p>In the submenu <b>CLOCK</b> it is possible to set out the date and time of the weighing computer.</p> <p>Press  to enter the changing mode.</p> <p>Use the numeric keyboard to change the values of this menu, and   to move between the slots.</p> <p><i><u>NOTE: it is possible to activate the automatic change of the summer time.</u></i></p>	
<p><b><u>POWER SUPPLY</u></b></p>	<p>The submenu <b>BATTERY</b> shows the supply tension of the weighing computer.</p>	
<p><b><u>LANGUAGE</u></b></p>	<p>In the submenu <b>LANGUAGE</b> it is possible to set out the language used by the weighing computer.</p> <p><i><u>NOTE: if the weighing computer is used in Chinese for entering text and numbers, the PinYin editing system is used (See CHINESE LANGUAGE ADDENDUM).</u></i></p>	

FUNCTION	OPERATION	DISPLAY
<p><b><u>WEIGHT IN REVERSE</u></b></p>	<p>In the submenu <b>WEIGHT IN REVERSE</b> it is possible to set out the "Reverse" visualization of the weight values.</p> <p>In order to modify the visualization setting "Weight in reverse" from ON to OFF, and on the contrary, use the keys  .</p> <p>Press  to save changes or  to exit the submenu without saving.</p>	 <p>The screenshot shows a menu titled 'MENU' with the date '10/03/2013 09:41'. The main menu is 'MANUAL TOPCUT'. The 'WEIGHT IN REVERSE' option is highlighted, and its current setting is 'OFF'. Other options include 'CONTRACT', 'HELP', and 'PRINT HEADING'. Below the menu, the display shows 'PESO ANIMALE', '19/06/2015 14:34', and 'Kg'. The main display area shows three white arrows on a black background. At the bottom, it shows 'Peso Istantaneo' with a large '7.0' and 'USB PENDRIVE'.</p>
<p><b><u>BACKUP USB PARAMETERS</u></b></p>	<p><u>This submenu is available only when it is detected a USB Pen Drive in the corresponding port.</u></p> <p>In the submenu <b>BACKUP USB PARAMETERS</b> it is possible to export all parameters and settings of the scale in a USB pendrive.</p> <p>Please note that this operation serves to store on an external device all the parameters of the control unit, in order to reuse them in case of need.</p> <p>USB parameters backup is due to be made in case of replacement of the Control Unit, in order to be able to configure the new control unit with the parameters and calibrations of the previous.</p> <p>It also recalls that the parameter files generated by the control unit must not be modified or altered in any way from a PC.</p> <p>Once in the submenu type the name of the file with the numeric keyboard and push  to start the backup operation.</p> <p>Once started the operation it will appear a waiting screen and spent a few seconds the unit will beep and will show a second screen where will be displayed the number of parameters stored within the .CSV file.</p> <p>At this point the backup operation is finished.</p> <p><u>NOTE: it's possible to see the menu only with the USB pendrive inserted.</u></p> <p><u>NOTE: in order to avoid faults, please do not remove the USB stick during the download of the backup data.</u></p>	 <p>The first screenshot shows the 'MENU' with the date '10/06/2014 16:05'. The 'BACKUP USB PARAMETERS' option is highlighted. Below it, the file name 'ADV GA OUT.csv' is entered. At the bottom, there are options for 'Change writing mode' (F3) and 'HELP' (F1).</p> <p>The second screenshot shows the 'MENU' with the date '10/06/2014 16:05'. The screen displays 'BACKUP USB OPERATION COMPLETED!!!' with a USB drive icon. Below this, it shows 'P: 83 A: 4 R: 34'. At the bottom, there are options for 'Change writing mode' (F3) and 'HELP' (F1).</p>



FUNCTION	OPERATION	DISPLAY
<p><b><u>USB BACKUP</u></b></p>	<p>In the USB BACKUP submenu it is possible to manually export all the data related to the WEIGHINGS HISTORY on the USB Pen Drive.</p> <p>In particular, this menu has the function of recovering previously downloaded data on the USB Pen Drive.</p> <p>To start the data backup procedure, press .</p> <p><u>NOTE: the file is created in .CSV format (can be processed with spreadsheet programs)</u></p>	
<p><b><u>USB BACKUP</u></b></p> <p><b>Weighings History Reset</b></p>	<p>In the USB BACKUP submenu it is possible to reset all the operations history contained in the weighing computer.</p> <p>Press simultaneously for 5 seconds  .</p> <p>Once the reset operation has been performed, the item will appear light gray.</p> <p><u>NOTE: this operation is irreversible and deletes ALL the weighings stored inside the scale.</u></p>	 

## **QUICK BACKUP**

After saving the weights with the key , (see the instructions on pag.9-11), simply insert the USB pen drive into the control panel door and automatically download all the files that are not yet downloaded, this still remains a copy of the weighing historian inside the control unit, downloadable following to the BACKUP USB instructions.

# EXAMPLES OF .CSV FILES

## .CSV FILE CONTENT

In this paragraph is analyzed the content of the .CSV files, which can be downloaded on a Pen Drive through the special connector. This special format can be opened by a program of calculation spreadsheet (for example Microsoft Excel), in order to allow the data elaboration from PC.

**NOTE:** All the .CSV files have a name with a suffix named “nn”. Nn = it is the ID number of the indicator, which has been set from the installer during the system start-up.

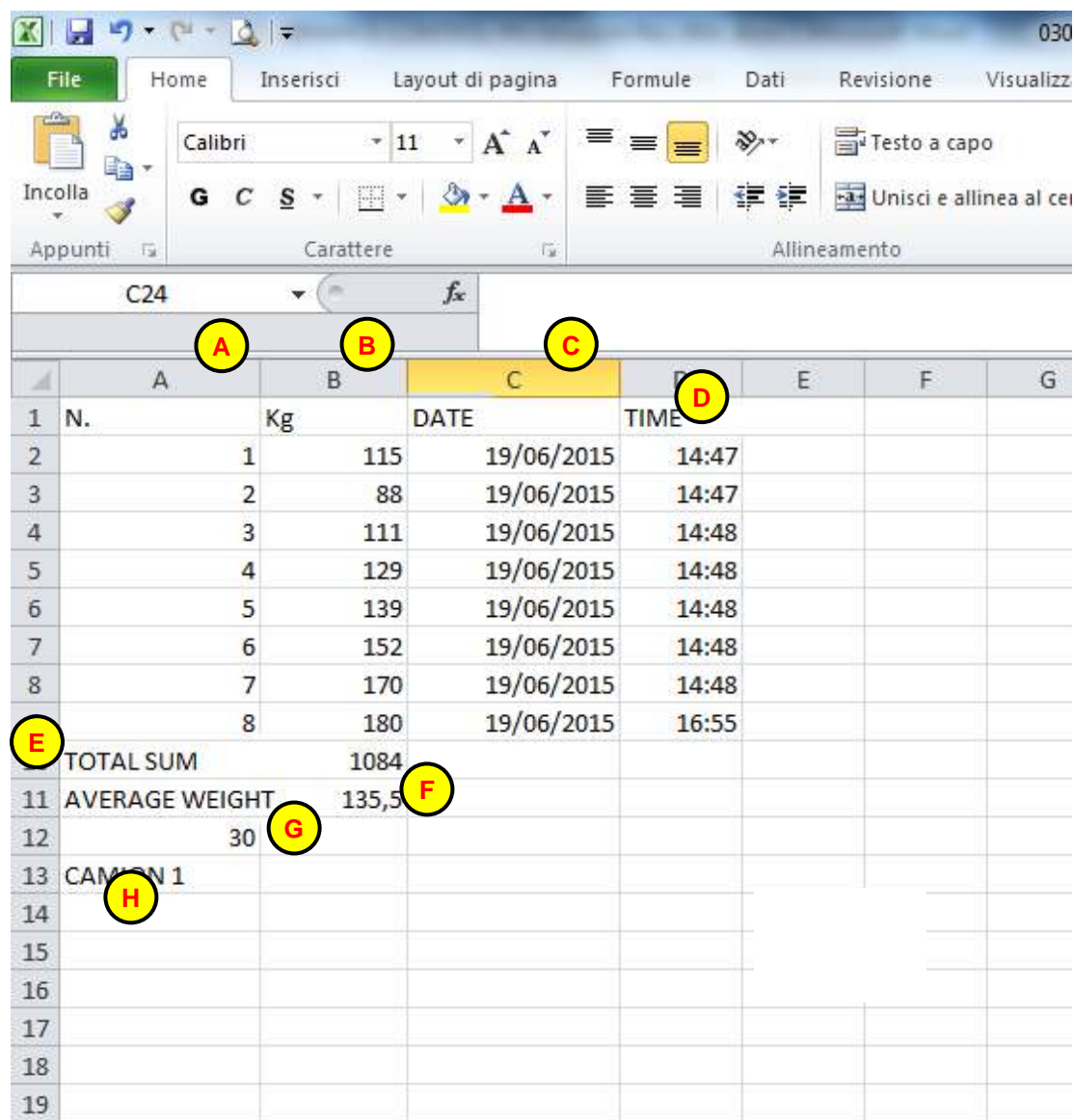
## **WEIGHING TOTAL:**

Here you can find the content of the .CSV file exported on the Pen Drive from the menu. For each weighing is created a file named **nnn-ggmmaaaa\_nn**;

- nnn = progressive number of the operation
- gg = memorization day of the weighing
- mm = memorisation month of the weighing
- aaaa = memorisation year of the weighing
- nn= ID number of the indicator

For example, in case the weighing no. 30 of the day 19/06/2015 is memorized, the file name becomes **030-19062015\_00**.

## PRINT EXAMPLES ON .CSV FILE (WITHOUT ACTIVE TRANSPONDER)



	A	B	C	D	E	F	G
1	N.	Kg	DATE	TIME			
2	1	115	19/06/2015	14:47			
3	2	88	19/06/2015	14:47			
4	3	111	19/06/2015	14:48			
5	4	129	19/06/2015	14:48			
6	5	139	19/06/2015	14:48			
7	6	152	19/06/2015	14:48			
8	7	170	19/06/2015	14:48			
	8	180	19/06/2015	16:55			
9	TOTAL SUM		1084				
11	AVERAGE WEIGHT		135,5				
12	30						
13	CAMPION 1						
14							
15							
16							
17							
18							
19							

Firstly the different acquisitions are analyzed (they are visualized chronologically). For each one the following data are specified:

- A. Progressive number of the current weighing (N.)
- B. Recorded animal weight (Kg)
- C. Acquisition date of the animal weighing
- D. Acquisition hour of the animal weighing + Weighing mode indication

At the end of the file you can find 4 lines, in which the following information are visualized:

- E. Total amount of the acquisitions
- F. The average weight of the acquisitions
- G. The operations progressive number (selected from the scale. It can be change, if the archives are deleted).
- H. The name assigned to the weighing group (in the example CAMION1)

## PRINTING EXAMPLES ON .CSV FILE (WITH ACTIVE TRANSPONDER)

	A	B	C	D	E
1	N.	Kg	ID	DATE	TIME
2		1	101	TR:03800000000000062	28/06/2017 10:27
3		2	88	TR:03800000000000067	28/06/2017 10:27
4		3	85	TR:03800000000000051	28/06/2017 10:28
5		4	101	TR:03800000000000018	28/06/2017 10:28
6	TOTAL SUM	375			
7	AVERAGE WEIGHT	93,7			
8		3			
9	BOX 1				
10					

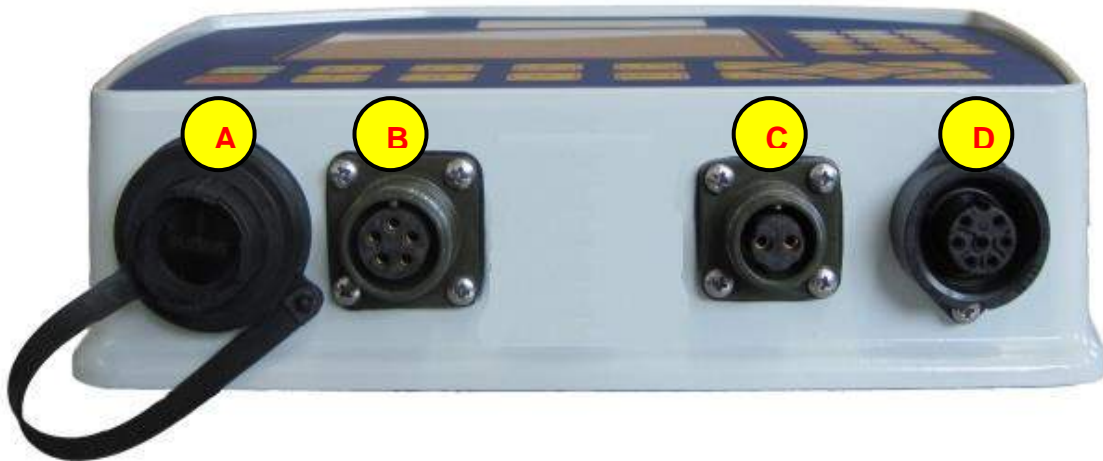
First the different acquisitions are analyzed, displayed in chronological order. For each of them is specified:

- A. Current weighing progressive number (N.)
- B. Animal detected weight (Kg)
- C. Transponder ID
- D. Animal weighing acquisition date
- E. Animal weighing acquisition time + Weighing mode indication

At the file bottom there are four lines reporting the following information:

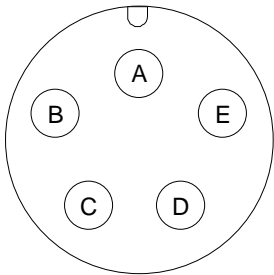
- F. Total amount of the single acquisitions
- G. Acquisitions average weight
- H. The operation progressive number (chosen by the indicator, it could change when all recordings are deleted).
- I. The weighing group name. (in the example: BOX1)

# CONNECTORS PLAN



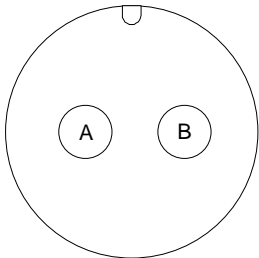
- Connector "A": USB connector to insert the pendrive
- Connector "B": 5-pin female connector for the connection of load cells.
- Connector "C": 2-pin female connector for power supply.
- Connector "D": 7-pin female connector for optionals and accessories

## CONNECTOR "B" – 5-PIN FEMALE CONNECTOR FOR LOAD CELLS CONNECTION



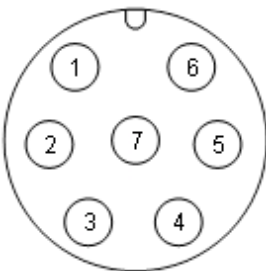
<u>CONTACT</u>	<u>FUNCTION</u>
A	Negative signal
B	Positive power supply
C	Positive signal
D	Negative power supply
E	GND, shield

## CONNECTOR "C" – 2-PIN FEMALE CONNECTOR FOR POWER SUPPLY



<u>CONTACT</u>	<u>FUNCTION</u>
A	+11/32 V cc, Positive power supply
B	-11/32 V common - GND, Negative power supply

## CONNECTOR "D" – 7-PIN FEMALE CONNECTOR FOR DISPLAYS AND OPTIONALS



<u>CONTACT</u>	<u>FUNCTION</u>
1	+ 11/32 Volt cc (max 2 A)
2	Not used
3	Rx serial RS232 repeater display and optional
4	Tx serial RS232 repeater display and optional
5	+11/32 V cc (with passage for on/off contact - max 0.5 A)
6	Alarm Output (out 12 Vdc, 0,75 A)
7	-11/32 Vcc GND (common power supply)

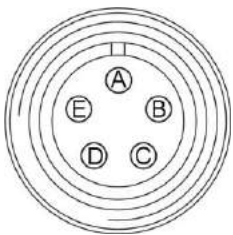
# CONNECTION CABLES

Please find here below the description of all types of **standard** cables to be connected to the scale connectors.

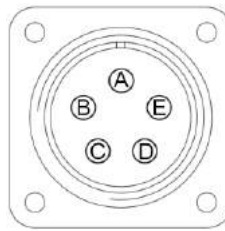
## **JUNCTION CABLE WITH 5 PINS CONNECTOR**



In the junction cable with 5 pins connector, on one side there is a 5 pins male connector to connect to the "B" connector of the scale, while on the opposite side there are some conductors available to be used for the connection to the load cells (without 5 pins connector), inside a junction box. Please consult the table here below to check the function of each wire.



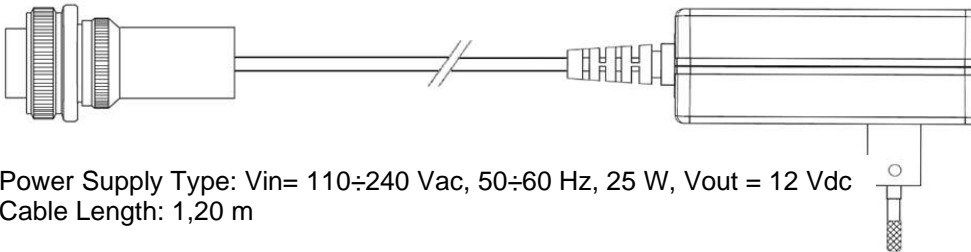
5 pins male connector  
Front sight



5 pins panel female connector  
Front sight

CONTACT	FUNCTION	CONDUCTOR COLOUR	
		unction cable with 5 pins connector	load cells cable
A	Negative Signal	Blue	Yellow
B	Positive power supply	White	White
C	Positive Signal	Red	Red
D	Negative power supply	Green	Green
E	GND, shield	Brown	Shield

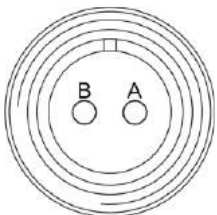
## **PLUG-IN POWER SUPPLY WITH 2 PINS CONNECTOR**



Power Supply Type:  $V_{in} = 110 \div 240$  Vac,  $50 \div 60$  Hz, 25 W,  $V_{out} = 12$  Vdc  
Cable Length: 1,20 m

On one side there is a 2-pole male connector to be connected to the connector "C" of the control unit while on the other side there is a plug-in power supply to be connected to mains socket 230 V ac 50 Hz

The 2-pins male connector is used both on the power supply cable and on the plug-in power supply with 2-pins connector. Here following is shown the table of connector contacts:

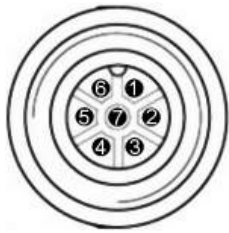


2-pins male connector  
Front sight

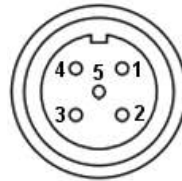
CONTACT	FUNCTION	WIRE COLOUR	
		Power supply Cable	Plug-in power supply
A	Positive power, +10/32 Vdc	Red	White
B	Negative power, -10/32 Vdc	Black	Shield

**CONNECTION CABLES - "D" CONNECTOR (7-PINS PANEL FEMALE FOR OPTIONALS)**

The AUTOMATIK MARKER module connection cable can be connected to the "D" connector



7-pins male connector Front sight



5 pins panel female connector Front sight

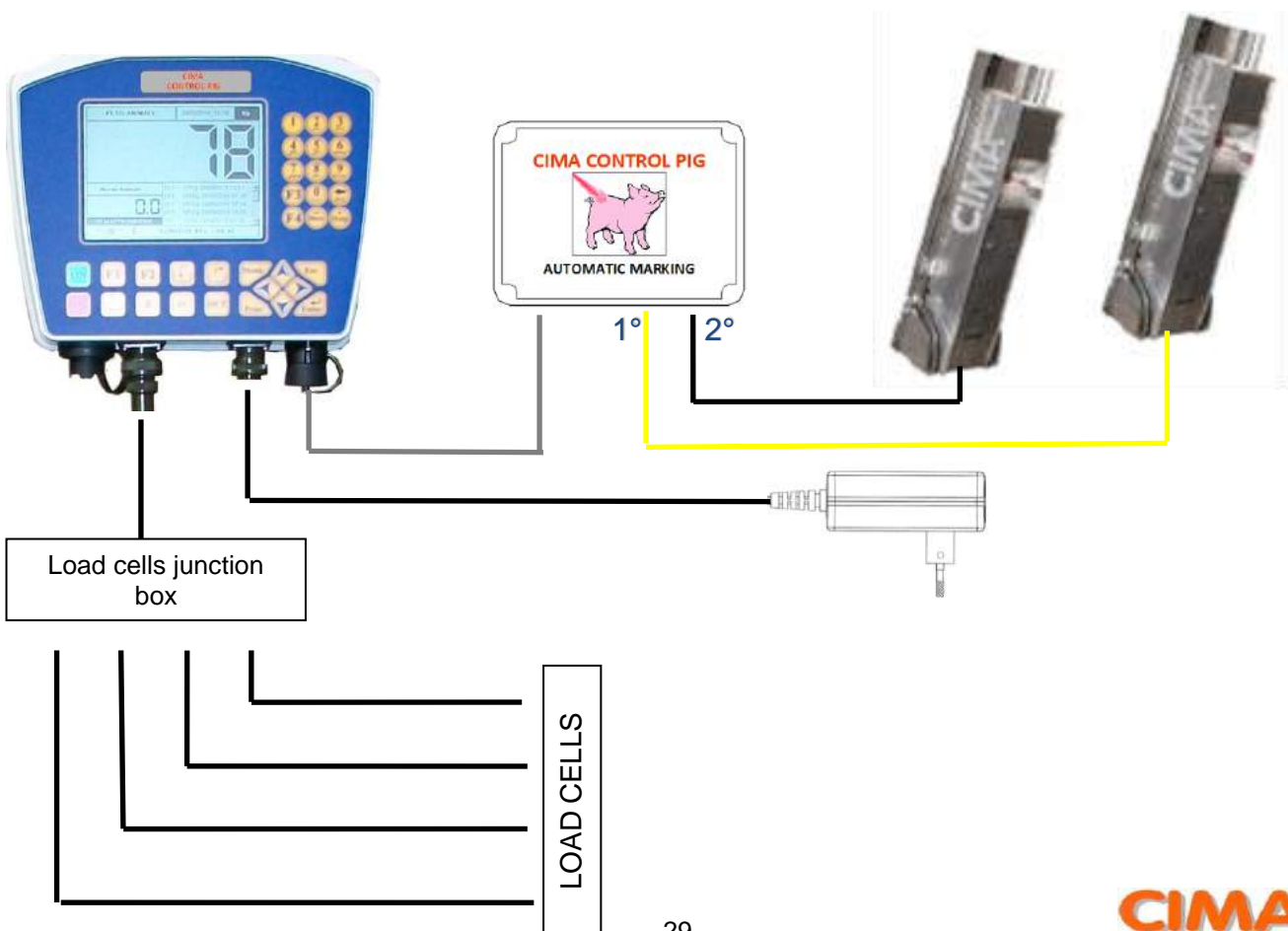
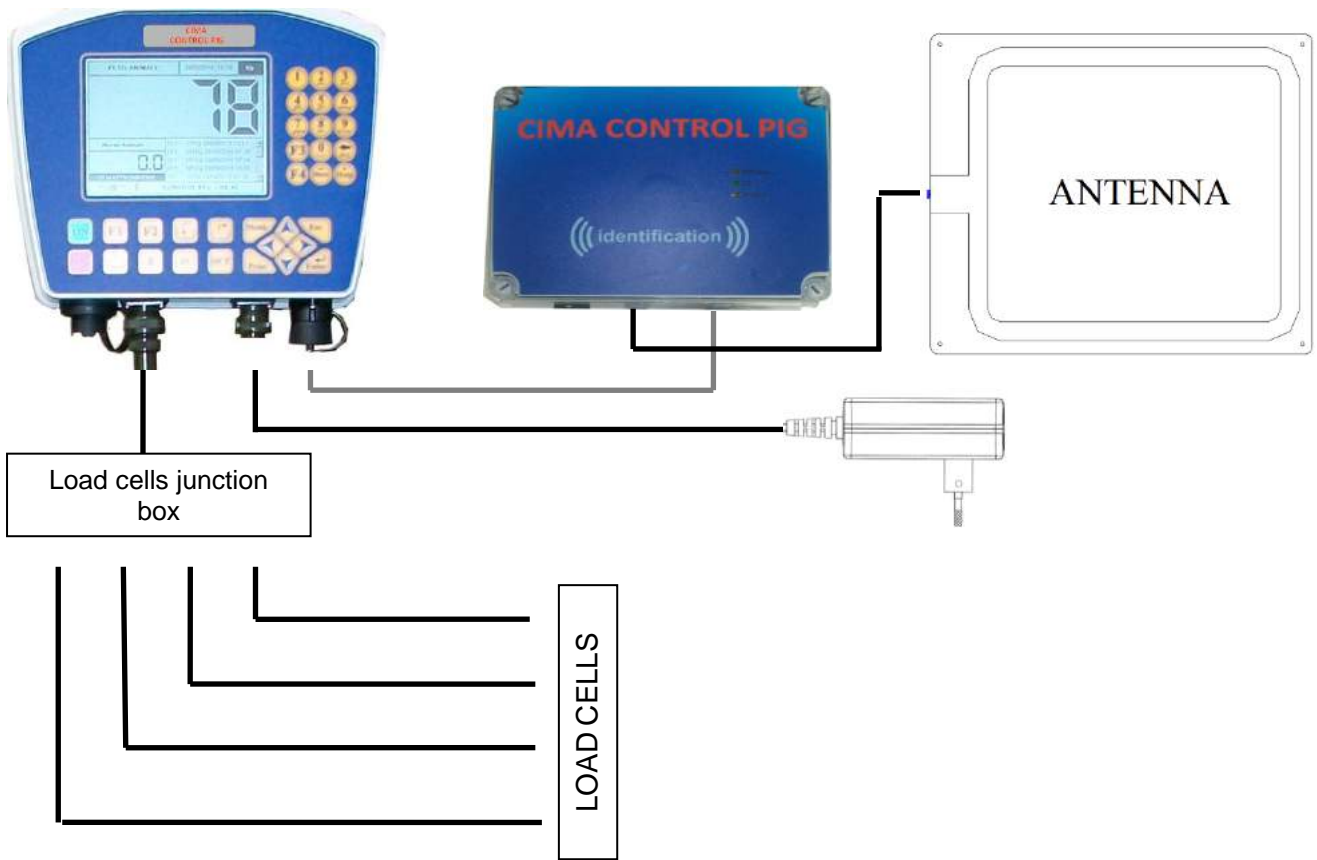
The " connection cable can be connected to the "D" connector of the transponder / marker. There is a 7-pins male connector to be connected to the indicator and a 5-pins female connector. The tables below indicate in detail all functions of the various connectors contacts.

**MULTI-OUTPUT CABLE**

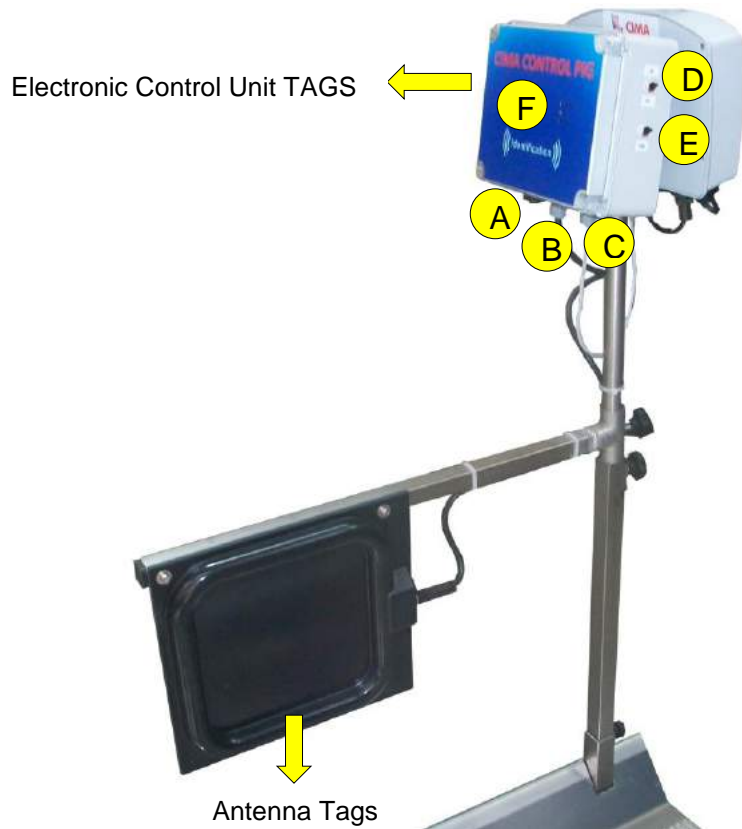
<b><u>CONNECTOR TYPE</u></b>	<b><u>CONTACT</u></b>	<b><u>FUNCTION</u></b>	<b><u>WIRE COLOUR</u></b>
7-PINS MALE	1	+ 11/32 Volt cc (max. 2 A)	Brown
	2	Not used	-----
	3	Rx RS232 serial for accessories and display repeaters	Pink
	4	Tx RS232 serial for accessories and display repeaters	Yellow
	5	+11/32 V <sub>cc</sub> (active when the indicator is ON /0,5 A max)	White
	6	Out Alarm (12 Vdc, 0,75 A)	Green
	7	-11/32Volt cc (GND)	Grey
5-PINS PLASTIC MALE	1	+ 11/32Volt cc (max. 2 A)	Brown
	2	-11/32 Volt cc (GND)	Grey
	3	+11/32 V <sub>cc</sub> (active when the indicator is ON/0,5 A max)	White
	4	Rx RS232 serial for Multilink accessory	Pink
	5	Tx RS232 serial for Multilink accessory	Yellow



# CONNECTION SCHEME

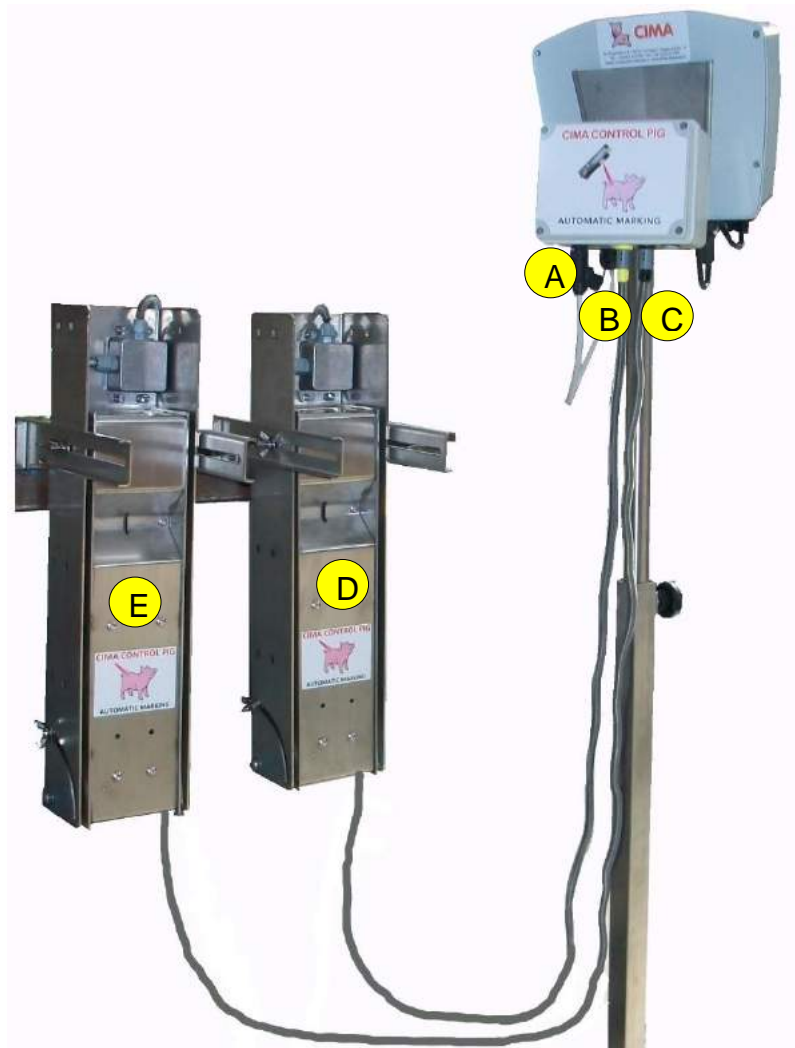


# TAGS SYSTEM OPTIONAL



	<u>DESCRIPTION</u>	<u>FUNCTION</u>
A	Connector 4 Pins	For connection to a battery charger.
B	Antenna Cable	For connection to tags antenna.
C	Cable and Connector 7Pins	For interfaces between electronics control units.
D	On/Off	<b>Switching on and off the electronics control unit Tags.</b>
E	Tune	<b>Reset magnetic field antenna, to be operated at every start and weighing cycle.</b>
F	Light Led	Service (red) Ok (green) Power (yellow): Tags control unit and antenna switched on.

# MARKER SYSTEM OPTIONAL



	<u>DESCRIPTION</u>	<u>FUNCTION</u>
A	Connector 5 Pins	For interfaces between electronics control units.
B	Connector Yellow	For connection Automatic Marking to Marker 1
C	Connector Black	For connection Automatic Marking to Marker 2
D	Marker	Marker 1
E	Marker	Marker 2

# TROUBLE SHOOTING

ERROR DESCRIPTION	ACTION TO CARRY OUT	EFFECT	SOLUTION
<p>Unstable weight: the weight value shown goes up and down steadily</p> <p>Weight drifts: the weight shown either increases or decreases steadily</p> <p>ErrorH: Scale out of range for positive values</p> <p>ErrorL: Scale out of range for negative values</p>	<p><b>1</b> Press T/CLEAR and then Enter.</p>	<p>The message ERROR disappears and the weight becomes stable.</p> <p>Either the message ERROR is still shown on the display, or the weight is visualized in an unstable way.</p>	<p>The scale was out of range; by pressing the key T/CLEAR the problem was solved through the scale software.</p> <p>Check the integrity of the weighing system and of the load cells. To better understand what is broken, carry out the action described in the next point. <b>2</b></p>
	<p><b>2</b></p> <p>Disconnect the 5-pin connector (metal circular connector) of the load cell cable from the scale.</p>	<p>Weight still fluctuates / drifts / shows ERROR.</p> <p>Weight gets stable, even though a wrong value is shown.</p>	<p>Check if the 5-pin female connector of the scale has humid contacts. If so, use warm air to dry off the connector (use for instance a hairdryer). If after this operation the weight still fluctuates, contact service. <b>3</b></p> <p>Carry out the action described in the next point:</p>
	<p><b>3</b></p> <p>Disconnect the junction cable from all the load cells and reconnect the 5-pin connector to the scale, avoiding the contact between the different connection wires.</p>	<p>Weight still fluctuates / drifts / shows ERROR.</p> <p>Weight gets stable.</p>	<p>Check if the cable is damaged; if so, replace it. Check if the junction box contains humidity; if so, dry the junction box.</p> <p>The reason of the problem is that one or more load cells do not work properly. To better understand the cause of the failure, carry out the action described in the next point. <b>4</b></p>
	<p><b>4</b></p> <p>Set the tare to zero on the weighing computer (by pressing T/CLEAR and then Enter). Wait for some seconds. Connect one single load cell to the junction cable, by connecting each single wire colour by colour, and pay attention that the wires do not touch each other.</p>	<p>Weight still fluctuates / drifts / shows ERROR.</p> <p>Weight gets stable.</p>	<p>The connected load cell doesn't work properly; contact service.</p> <p>The load cell doesn't work properly; disconnect the load cell and connect another one. This operation must be repeated for all load cells.</p>
	<p><b>5</b></p> <p>Make sure that the cables of the load cells are not torn or crushed.</p>	<p>The cables are seriously damaged or broken.</p> <p>The cables are intact.</p>	<p>Replace the damaged cables.</p> <p>Carry out the action described in the next point: <b>6</b></p>
	<p><b>6</b></p> <p>Check that the aluminium structure, or the device receiving the weight, does not touch the in any point.</p>	<p>The aluminium structure touches some point</p> <p>The aluminium structure does not touch any point.</p>	<p>Arrange for the aluminium structure not to touch in any point.</p> <p>Contact service.</p>
	<p>Disconnect the 2-pin connector of the alarm from the cable controlling it.</p>	<p>The scale works properly.</p> <p>The scale still switches off.</p>	<p>The alarm doesn't work properly and must be replaced.</p> <p>The cause could lie in the cable controlling the alarm. Carry out the action described in the next point: <b>7</b></p>
	<p><b>7</b></p>	<p>The scale works properly.</p>	<p>The cable controlling the alarm is damaged. Replace it.</p>

ERROR DESCRIPTION	ACTION TO CARRY OUT	EFFECT	SOLUTION
	Disconnect the cable controlling the alarm of the scale, by means of the 7-pin connector.	The scale still switches off.	Contact service.
The weight shown by the scale is not correct.	Carry out a new calibration of the system as indicated in the specific documentation.	The weight shown is correct.	The calibration of the system was successful.
		The weight shown is not correct.	Contact service.
The scale does not switch on, or the message Low Bat appears.	Check if the power supply complies with the technical features of the product.	The scale switches on.	
		The scale does not switch on: go on to the next point. <b>8</b>	
	<b>8</b>	The scale switches on.	
	Check if the power supply cable is interrupted or damaged, and if the power plug and the battery clamps are oxydated. If necessary, replace them.	The scale does not switch on.	Contact service.