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Agrologic chick scale 103 manual

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It runs on rechargeable batteries that last up to 8 hours. Designed for convenient use, birds can be weighed while hanging or in a bucket. Up to 9 separate batches of weights can be stored in its internal memory. The unit delivers the following precise information: Average weight of all the birds, standard deviation and the CV Number of birds weighed Weight histogram with 25 grams increments. All information may be recalled at the unit itself, or downloaded to a PC with an included PC program. Technical Specifications: Maximum Weight: 10 Kg Precision: 5 gr. Display: 4 digits Power Supply: 100 VAC to 240 VAC 50/60Hz USB cable: standard USB DOWNLOAD BROCHURE Free Back Chick Scale 103 The Chick Scale 103 is a portable, highly affordable manual weighing scale for poultry farms. It runs on rechargeable batteries that last up to 8 hours.

Designed for convenient use, birds can be weighed while hanging or in a bucket. Up to 9 separate batches of weights can be stored in its internal memory. The unit delivers the following precise information: Average weight of all the birds, standard deviation and the CV Number of birds weighed Weight histogram with 25 grams increments. All information may be recalled at the unit itself, or downloaded to a PC with an included PC program. Technical Specifications: Maximum Weight: 10 Kg Precision: 5 gr. Display: 4 digits Power Supply: 100 VAC to 240 VAC 50/60Hz USB cable: standard USB DOWNLOAD BROCHURE Transcript Chick Scale 103 User's Manual Chick Scale 103 Version CS103 Manual 1.0 / 25.11.2008 Page 1 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Introduction](#)..... [worship_mixtape.mp3_download](#) 3 The Panel 4 ON/TARE Key 5 Batch Display

Key: 4 AVG Key 4 UNI/GRAPH Key 5 OFF Key 5 Batch Display 5 Arrow Up and Arrow Down Keys 5 Menu / MENU and ENTER Keys 6 Operation 6 Charging the Chick Scale 103 Battery 6 Weighing 7 Viewing the Recorded Weights 8 Uniformity Graph 8 Erasing a Batch 8 Undo (delete) a Recorded Weight 9 Setup 9 Uniformity Setup 9 Measuring Unit Setup 10 Calibration 10 Downloading Data to a PC 11 Uniformity Formulas 28083841480.pdf 11 Tables

12 Table 2: Charge Light Table 12 Table 1: Menu Items 12 Table 3: Troubleshooting Table [augustine_city_of_god_latin.pdf](#) 14 Table 5: Display Messages 15 WARNING: 15 Page 2 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Introduction](#) Thank you for choosing the Chick Scale 103. The Chick Scale 103 is a stand alone, battery operated precise manual weighing system, specially developed for the weighing of live poultry. The Chick Scale 103 can weigh up to 9 batches and supply the following information.



• Total number of birds weighed. • Average weight. • Batch uniformity with four user chosen formulas: Coefficient of Variation (CV) Standard Deviation (SD) Standard Deviation in Percentage (SDPR) Percentage range • A uniformity graph in 25 gram steps (in Libra 0.05 LB steps) • Recall of the last 256 weightings. All information in the Chick Scale 103 can be easily viewed using the keyboard. On the Chick Scale 103 the user can set the configuration easily by choosing items from the menu. The Chick Scale 103 may be connected to a PC via a USB port in order to download all its information in graphic form. All data can then be exported to a spreadsheet.



The Chick Scale 103 has a built in rechargeable battery, which when fully charged gives a working time of approximately 12 hours. All information in the Chick Scale 103 is stored in its internal memory and will remain there even in the event of a low battery voltage or battery failure. The Chick Scale 103 has been calibrated before leaving the factory. Page 3 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual The Panel](#) The Chick Scale 103 panel has two displays, nine keys, a USB connector for PC connection, USB status light, an AC/DC adaptor connector and a CHARGE light. The four-digit display is for displaying the weight measured and various messages (weight display). The one-digit display on the right displays the batch number (batch display).

The keys are: ON/TARE, AVR, UNI/GRAPH, OFF, MENU, (Arrow Up), (Arrow Down), ENTER and BATCH. The way a weight is displayed depends on type of units set by the user. When the Chick Scale 103 is in Kg mode, the weight will be displayed in gram XXXX. When the Chick Scale 103 is in LB mode, the weight will be displayed in LB XX.XX. The default display is the current weight display. When a running decimal point appears on the weight display it indicates that the Chick Scale 103 is ready and the next bird can be weighed. When a bird is weighed, the display shows its weight and once the weight is registered, the display blinks with the registered weight. When a key is pressed, the display exits the weighing display, displays the requested information and then returns to the weighing display. If an error message appears on the display (i.e. Err1) it means that there is a problem and should be resolved. A summary of the display and error messages appears in Tables 4 and 5 (pages 1415). To see possible solutions to different problems or errors see the Troubleshooting table (page 13). ON/TARE Key To Tare the scale is the act of removing a known weight of an object, usually a weighing container, to zero the scale. Performing a tare allows you to display the weight of the bird on the scales display with the weight of the bird only and not the weighing container. The ON/TARE key is a double-function key. When the Chick Scale 103 is off, pressing on this key turns the Chick Scale 103 on and tares the scale. If the Chick Scale 103 is already on, pressing on the ON/TARE just tares the scale. Before pressing the ON/TARE key make sure that there are no birds on the hook. [manual_radio_comunicador_walk_talk_baofeng_bf777s](#)



The display shows "tARÉ" for a few seconds and then returns to its weighing mode. AVG Key Press on the AVR key to display the number of birds weighed in the current batch and the batch average weight. The number of birds weighed is first displayed and after a few seconds the average weight (the average weight is displayed with a decimal point).



After a few seconds the display will return to the weighing mode. Page 4 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual UNI/GRAPH Key](#) Press on the UNI/GRAPH key once to view the batch uniformity. The type of uniformity displayed depends on the uniformity type set in the uniformity setup (see Uniformity Setup below). Press on the UNI/GRAPH twice to view the uniformity graph (see Uniformity Graph below). OFF Key To turn off the Chick Scale 103 push on the OFF key. The current batch data is saved in the internal memory and the Chick Scale 103 is turned off. Batch Display Key When the power is turned on, the last batch number which was in use will appear on the display. Data: if the batch contains information the display will show dATA. To choose a batch out of the nine batches, press on the BATCH key.

For each key press the batch number increases by one. After the ninth batch, the first batch is displayed. Each time you press the BATCH key, the information status for the new batch, CLR or dATA appears on the display. Arrow Up and Arrow Down Keys The Arrow Up and Arrow Down keys have multiple functions depending on the display mode. • If the display is in the recall recorded weights mode, these keys allow browsing through the recorded weights. • If the display is in the Uniformity Graph mode, these keys allow viewing all the graph weight steps. [exercicios_expansao_maritima_europeia_7o_ano.pdf](#) • If the display is in menu mode, these keys allow viewing all menu items and menu items options. Page 5 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Menu / MENU and ENTER Keys](#) Press on the MENU key to enter the menu. The menu contains 8 items (Table 1 page 12). After pressing the MENU key, the first menu item GrAP (Uniformity Graph) is displayed. Every press on the Arrow Up key displays the next menu item. Every press on the Arrow Down key displays the previous menu item. [mixer_mackie_cfx_16_manuale_italiano](#) To choose a menu item press on the ENTER key. To exit the menu, press on the MENU key. The display shows ESCA (short for Escape) and the display will return to the weighing mode. A full description of the menu items and their usage is done through out the rest of the manual. See Table 1 Menu Items (page 12) for a detailed definition of Menu Items. Operation Charging the Chick Scale 103 Battery Before weighing the Chick Scale 103 battery must be charged. There are two methods available for charging the ChickScale 103: • Charging through a USB cable and PC: Connect one end of a USB cable to the USB connector located on the front panel and the other end to a PC. Note: the PC must be on for charging to take place. • Charging by use of an AC/DC adaptor connector. Connect the AC/DC adaptor to the main electricity supply and to the Chick Scale 103 AC/DC adaptor connector located on the side of the Chick Scale 103. Charging time is approximately 10 hours. While the unit is charging, the CHARGE light flash once a second. Once the battery is fully charged, the CHARGE light remains constantly on. If the charging fails, then the CHARGE light flashes rapidly (ten times a second) or Err5 will appear on the display. When connecting the Chick Scale 103 to the PC or to a wall outlet via the AC/DC adaptor, USB or AC.Ad appears for a few seconds on the display.

If the Chick Scale 103 was off, it is turned on automatically. If the CHARGE light is turned off it means that the USB cable or the AC/DC adaptor was disconnected from the Chick Scale 103. After the battery is fully charged, the Chick Scale 103 can be left connected to the PC or to the AC/DC adaptor indefinitely and thus if the battery voltage drops due to its self discharge current, the battery is recharged to keep it always full. Before disconnecting the Chick Scale 103 from the PC or from the AC/DC adaptor, press on the OFF key. This will save battery power. If the Chick Scale 103 is not connected to a charger for more than four weeks, recharge it to get full operation time. To protect the battery, charging is stopped if the temperature is above 45 degrees Celsius (113 degrees Fahrenheit) or below 0 degrees Celsius (32 degrees Fahrenheit).

To keep the capacity of the battery high, avoid storing the Chick Scale 103 above 40 degrees Celsius (104 degrees Fahrenheit). Page 6 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual See Charge Lights Table 2](#) (page 12), for list of light modes For charging problems see the Trouble shooting (page 13). Important note: Use only the supplied AC/DC adaptor. [distillation_column_hazop.pdf](#) Using any other AC/DC adaptor may cause a permanent damage to the Chick Scale 103. [communication_skills_active_listening_worksheet](#) Weighing Hang the Chick Scale 103 from its top ring. Connect your weighing device to the unit (A hook, a bucket or a funnel) before turning the Chick Scale 103 on. Turn on the power by pushing the ON/TARE button. The display will show 8.8.8.8. Then UrXX (where XX is the software version), and then tARÉ while the scale is being tarred. When the batch number appears on the batch display, the weight display shows either CLR (For the word Clear, meaning that there is no information stored for that batch) or dATA (if there is previously weighed information for that batch). The running decimal point that appears next indicates that the Chick Scale 103 is now ready and in the weighing mode. Important note: The accuracy of Chick Scale 103 is +/-5 Grams (+/-0.01 Lb). For accurate measurements avoid touching the unit from the time the ON/TARE is pressed until the running decimal point is displayed. Each time a bird is hung on the hook, the Chick Scale 103 weighs it and displays its weight. A blinking display indicates that the bird weight has been recorded and taken it into its calculated average and uniformity. The blinking display shows the recorded weight. At this point you may take off the bird, wait for the running decimal point and continue to weigh. The Chick Scale 103 doesn't record a weight or add it to the average and uniformity calculation if the bird weight is less than half the current average. Also the Chick Scale 103 doesn't weigh birds under 50 grams (0.1 Lb). It is advisable to turn the Chick Scale 103 off when moving it around to avoid accidentally recording false weights. Important Note: If a weight over 10 Kg (22 Lb) is hung on the unit, the display will show OFI (meaning Overflow). Such a weight may damage the load cell.

When the battery voltage is low, the message LOBt is displayed. [wesukipizagirinazalajez.pdf](#) It is possible to continue working for about half an hour before all the battery power is drained off. When all battery power is drained off the alternating messages End and BAtt appear for 10 seconds. The Chick Scale 103 will save the batch data and turns itself off. To turn the Chick Scale 103 on again connect it to a PC or use the AC/DC adaptor. Note: By connecting the AC/DC adaptor to the Chick Scale 103 it is possible to continue weighing even after the battery has been fully drained off. Page 7 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Viewing the Recorded Weights](#) To view the recorded weights when in the weighing display mode, press on the Arrow Up or the Arrow Down keys. The display shows the weight number, where 1 is the first recorded number and then the weight recorded (when the units are set to Kg, the weight recorded is displayed in Kg instead of Grams). If the Arrow Up key is pressed first, the first recorded weight is displayed and if the Arrow Down key is pressed first, the last recorded weight is displayed first. [pimep.pdf](#) Any other press on Arrow Up key displays the next recorded weight and any other press on the Arrow Down key displays the previously recorded weight. To return to the weighing mode press on one of these keys: MENU, AVR or UNI/GRAPH. Uniformity Graph The Chick Scale 103 memorizes the weight of all the birds in 25-gram steps (in Pounds in 0.05 Lb steps) in range of ±1000 grams (±2.00 Lb in Pounds) around the average. To scroll through the uniformity graph, push on the UNI/GRAPH button twice or enter the menu or choose the GRAP option from the menu. The display shows the lowest recorded weight and after a few seconds the number of birds in this weight (the weight is displayed with a decimal point). Press on the Arrow Up key to show the next weight step. Press on Arrow Down key to show the previous weight step. Weight-steps with no weights are not shown. When the end of the Uniformity Graph is reached the display shows End. If the table is empty, the display shows CLR. To exit, press on the MENU key. [pusoyisedekxuenuyvi.pdf](#) The Chick Scale 103 returns to the weighing mode. Erasing a Batch There are two ways to erase the stored batch information: through repeated use of AVR key or through the menu. Erasing a Batch using the AVR key: 1. Press on the BATCH key until the desired batch number is displayed. 2. Press 4 times on the AVR key. On the second, third and fourth key press the display shows ErA1, ErA2 and ErA3 correspondingly. 3. Press on ENTER key. The display shows blinking ERAS. 4. Press on the ENTER key again. The batch data is erased and the display shows CLR. Once the batch has been erased the display returns to weighing mode. Page 8 of 15 [www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Erasing a Batch](#) through the menu: 1. Press on the MENU key. The display shows GRAP. 2. Press once on the Arrow Up key. The display shows ErAS. [zegunejaw.pdf](#) 3. Press on ENTER key. The display starts to blink. 4. Press on the ENTER key again. The batch data is erased and the display shows CLR and then the display returns to the weighing mode. Undo (delete) a Recorded Weight To undo a recorded weight enter the menu and choose the Undo menu

item. Scroll using the Arrow Up and Arrow Down keys to choose the recorded weight that you want to undo and press the ENTER key (the weights are displayed in the same way they are displayed when viewing the recorded weights as described in the Viewing the Recorded Weights above). The display shows alternately Undo and the recorded weight. Press again on the ENTER key to undo the weight. The recorded weight will be removed from the average weight, uniformity and uniformity graph. The display then returns to the weighing display. To exit without undoing the weight, press on MENU key. Note: Undoing a recorded weight is not possible if the number of birds recorded is greater than 256. Setup To configure the Chick Scale 103 choose the Uniformity Setup and Measuring Unit Setup menu items. The following sections contain a description of these menu items. Uniformity Setup The Chick Scale 103 default setting is a uniformity formula called Coefficient of Variation (CV). The user can change the default to one of the other included uniformity formulas: Standard Deviation (SD), Standard Deviation in Percents (SDPR) and the last formula is called the percentage range of the average. For a detailed description of the different uniformity formulas see Uniformity Formulas on page 11. The sub-menu from which you choose the formula contains the following options: CU (for CV), Sd (for SD), SdPr (for SDPR) and numbers from 3 to 30, which are the options for the percentage range of the average. To change the uniformity formula, do as follows: • Enter the menu, choose the Uni menu item and press on the ENTER key. The previously selected uniformity type is displayed. • Use the Arrow Up and Arrow Down keys to select the desired uniformity type and then press the ENTER key. The choice is stored in the permanent memory and the display returns to the weighing mode.

Page 9 of 15 www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual To exit without changing the uniformity type, press on the MENU key instead of the ENTER key. Measuring Unit Setup The Chick Scale 103 has two measuring units; kilos or pounds. The factory default measuring unit is set to kilos. To change the measuring unit, do as follows: Enter the menu, choose the grLb menu item and press on the ENTER key. The current measuring unit is displayed. Use the Arrow Up or Arrow Down keys to scroll between the options (gr for kilos and Lb for pounds). Choose the desired unit and press on Enter. ejercicios programacion lineal The choice is stored in the permanent memory and the display returns to the weighing display. To exit without changing the measuring unit, press on the MENU key instead of the ENTER key. Calibration The Chick Scale 103 is calibrated at the factory. omega storcenter k2 install firmware It is possible to re-calibrate the Chick Scale 103.

Important note: To calibrate the Chick Scale 103 use a 1 Kg or 5 Kg weight (2 Lb or 10 Lb). The accuracy of the calibration depends on the precision of the weight used. applied linear regression weisberg pdf Follow these steps to calibrate the scale: 1. Place the unit in its weighing position. Be sure the weight hook is empty. 2. Enter the menu and choose the CAL option. 3. Press on the ENTER key. Blinking -00- is displayed (an accurate tare is being done). 4. Wait for the display to show CAL. Hang a standard weight (1 or 5 Kg or 2 or 10 Lb.) on the scale. After a few seconds the display will alternate between End and the current weight. The system has now completed its calibration and stored it in the permanent memory.

5. Remove the standard weight. The display will return to the weighing mode. Page 10 of 15 www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Downloading Data to a PC Install the P.C. program supplied with the weighing unit. • • Connect a USB cable from the USB connector on the Chick Scale 103 front panel to a USB connector in the PC. When the USB cable is connected, the Chick Scale 103 is turned on and USB is displayed for few seconds on the display. Run the PC program and click on the Read data (found on the PC program Menu list. See PC program setup and User's Manual) button to download all data to the PC. Important note: Do not press on the ON/TARE or the OFF keys while data is downloaded from the Chick Scale 103. Uniformity Formulas Here are the formulas that are used to calculate the uniformity. The SD (Standard Deviation) is calculated with the formula: $SD = \frac{\sum(X_i - \bar{X})^2}{n}$ Where X_i is a weight number i , \bar{X} is the average and n is the bird number. The Coefficient of Variation (CV) is calculated as follows: Standard Deviation divided by the average weight times 100. $CV = \frac{SD}{\text{Average}} * 100$ (AVR The SDPR (Standard Deviation in Percentage) is calculated as follows: $SDPR = \frac{SD}{\text{Average}} * 100$ When you choose a percentage X (3%-30%), the Chick Scale 103 counts all the birds that fall into the following weight range: The minimum of the range is the average weight minus (average*X)/100. The maximum of the range is the average plus (average*X)/100. Page 11 of 15 www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Tables Table 1: Menu Items Menu Item No 1 2 3 Menu Item Name Menu Item Display Menu Item Description Uniformity Graph Erase Batch Undo Weight GrAP ErAS Undo 4 Calibration CAL 5 Uniformity Setup Uni 6 Measuring Unit Setup Diagnostics End of Menu grLb Scrolls the Uniformity Graph. Erases the data of the current batch. Scrolls the last 256 registered weightings and can undo a certain weighing. Calibrate the Chick Scale 103 with a known weight Set the type of uniformity displayed when the UNI/GRAPH key is pressed.

Set the measuring unit: Kg or Lb (Pound).

For technician's diagnostics use. Exit the menu. 7 8 diAg End Table 2: Charge Light Table Light State Off Flash (every second) On Rapid Flash (Ten times a second) Meaning No PC or charger is connected or the charging has stopped because of abnormal temperature (see more in the Troubleshooting table below). Charging in progress Charging is completed Charging error Page 12 of 15 www.agrologic.com Note If PC or AC/DC adaptor are connected see Solving Problems below See Solving Problems below AL-2150-A 08-08 Chick Scale 103 User's Manual Table 3: Troubleshooting Table Problem With no weight the display doesn't show a running decimal point. Possible Cause(s) Automatic tare can not be done. Calibration never completed. CHARGE light flashes rapidly (ten times a second). CHARGE light is off while charging. The weighing element (load cell) is damaged. Charging has failed. Charging is stopped because the temperature is above 45 degrees Celsius (113 degrees Fahrenheit) or below 0 degrees Celsius (32 degrees Fahrenheit). Ways to Resolve the Problem 1. Press on the ON/TARE key. 2. If phenomenon is constant the Chick Scale 103 needs to be calibrated (see Calibration section above). 3. If after calibration phenomenon persists the Chick Scale 103 needs to be repaired. The Chick Scale 103 needs to be repaired.

See Err5 in table 4 below. See Err6 in table 4 below. Page 13 of 15 www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Table 4: Error Messages Error Cause Message Configuration data in the Err1 permanent memory has been corrupted. Err2 Err3 Err4 Err5 Err6 The weighing element (load cell) is damaged or disconnected. Calibration failed. Batch data in has not been saved correctly in the permanent memory. Charging has failed. Ways to Resolve the Problem 1. Reconfigure the Chick Scale 103 (see Setup section above). 2. Recalibrate the Chick Scale 103 (see Calibration section above). 3. If the problem persists, the Chick Scale 103 needs to be repaired. The Chick Scale 103 needs to be repaired. 1.

If the Chick Scale 103 has been charged from a PC, use a different USB connector or use the supplied AC/DC adaptor. 2. If the AC/DC adaptor has been used, the AC/DC adaptor or the battery has to be replaced. Charging is stopped because Charge the Chick Scale 103 in the temperature is above 45 temperature below 45 degrees Celsius degrees Celsius (113 degrees (113 degrees Fahrenheit) and above 0 Fahrenheit) or below 0 degrees Celsius (32 degrees Fahrenheit). Page 14 of 15 www.agrologic.com AL-2150-A 08-08 Chick Scale 103 User's Manual Table 5: Display Messages Table Message ofI --- Short for... Overflow Err1 Err6 ESCA Error1-Error6 Clr dATA ErAS USB USB0USB9 AC.Ad Lbt Clear AC/DC Adaptor Low Battery Voltage End/BAIT End of Battery Escape Meaning The weight is above 10 Kg (22 Lb) The weight is equal or below -1 Kg (-10 Lb) Error messages Exiting menu, graph or viewing weights display modes and returning to weighing mode There is no data in the current batch There is data in the current batch The data of the batch is about to be erased The PC has been connected. Data is being downloaded to the PC. Erase The AC/DC Adaptor has been connected. There is only about half an hour battery time. The battery is fully drained and the Chick Scale 103 is about to turn itself off.

WARNING: Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall void all warranties. There is no warranty on damage to the load cell. This manual may contain mistakes and printing errors. We accept no liability for technical mistakes, printing errors or their consequence's. Page 15 of 15 www.agrologic.com AL-2150-A 08-08