



WEIGHING INDICATOR

ABS ENCLOSURE

IP 65 & IP67 ENVIRONMENTAL PROTECTION

43050 & 43050-W

OPERATION MANUAL

FCC NOTE: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

INDUSTRY CANADA NOTE:

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH THE CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

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1. INTRODUCTION

Thank you for choosing Sensorika 43000 Series weighing indicator. The models Sensorika 43050 and 43050-W are rugged, reliable electronic weighing indicators in an IP65 (dust proof) and IP67 washdown enclosure designed for easy operation in industrial applications.

The 43000 Series can drive up to 12 (twelve) 350 Ohm load cells. The Indicator has an enhanced digital filter which allows stable display reading even if you set the display resolution to 1 : 100,000.

The LCD display has blue backlight and 6 digits, 1"/2.5cm in height. It provides easy reading of display from a distance or even with poor lighting on the weighing station.

An adjustable mounting bracket allows the indicator to be installed on a table, wall or scales column.

1.1 TECHNICAL FEATURES

Capacity (lb or kg)	1 to 999999
Display Resolution	Max. 100,000. Recommended: no more than 30,000
Weighing units	kg, g, lb, lb/oz
Functions	Part counting, Animal weighing, Accumulating weight, Checkweigher, Double range scale, Digital tare, etc.
Stabilization time	≤ 2 seconds
Auto zero tracking capture range	0 ~ 5.0 divisions
Zero range	0 ~ 99%
Span calibration	Selectable calibration weight
Weighing system	Analog strain gauge load cell
Load cell excitation voltage	12 VDC
Load cell input sensitivity	≥ 2.0 mV/V
Load cell drive	1 x 1000 Ohm or up to 12 x 350 Ohm load cells
Display	6 Digits LCD with blue backlight, digit size 1" / 25 mm
Power	Power adapter 100 ~ 240VAC 50/60 Hz / 9VDC 800mA
Battery life	Up to 60 hrs of constant use with 4 load cell and backlight off, about 30 hrs with backlight on
Operating temperature	0°C ~ 40°C (32°F ~ 113°F)
Keyboard	6 main board buttons and 5 navigation keys
Enclosure	ABS IP65 or IP67

2. KNOW YOUR INDICATOR

2.1 EXTERNAL VIEW AND DIMENSIONS

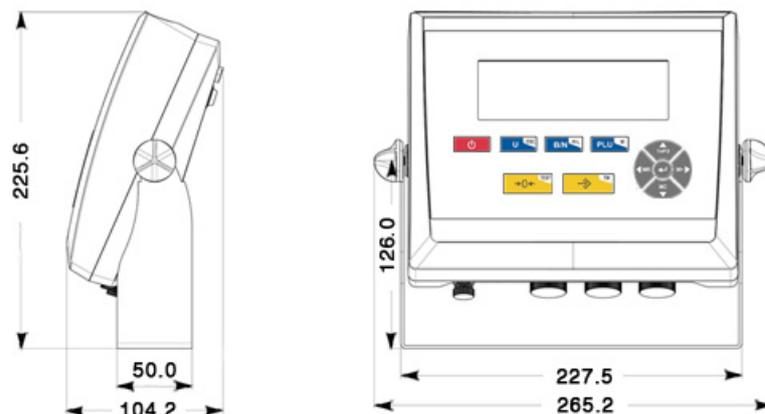


Fig. 1

2.2 OVERVIEW OF DISPLAY INDICATORS

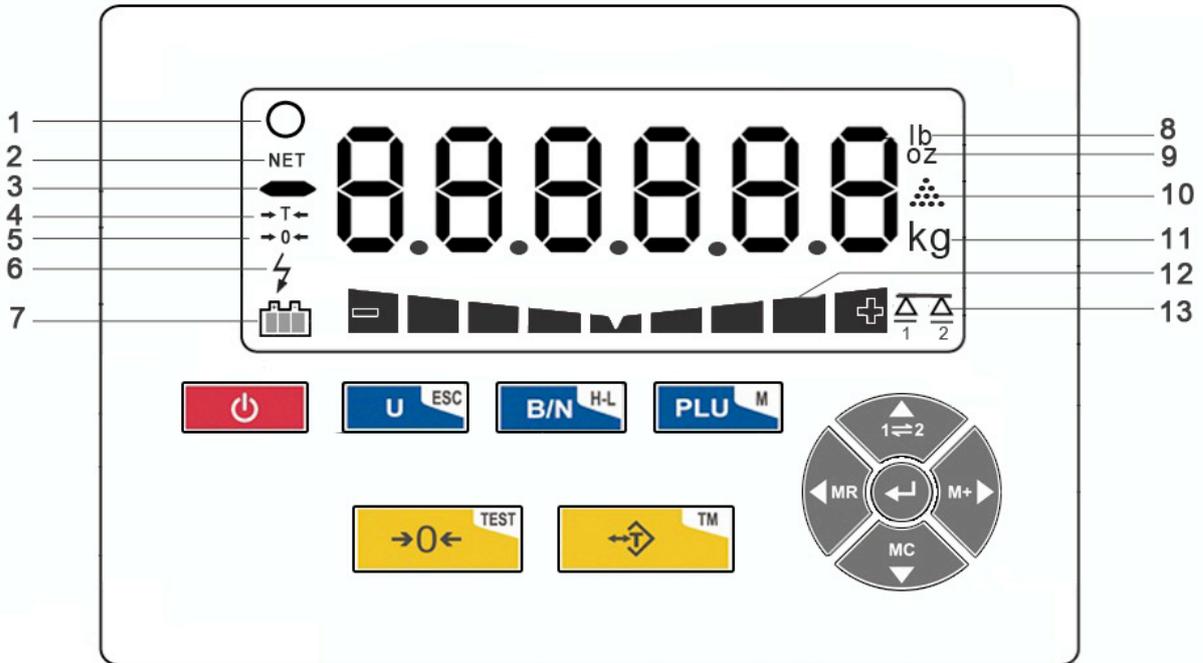


Fig. 2

1	Stability indicator
2	Net weight indicator
3	"Minus" indication of negative weight
4	Indicator of tare. Shows that Tare value is stored in RAM
5	Stable Zero indicator
6	External power connected
7	Battery load indicator
8	Weighing unit indicator
9	Weighing unit indicator
10	Part counting indicator
11	Weighing unit indicator
12	Checkweighing indicator
13	Dual platform mode indicator

2.3 OVERVIEW OF INDICATOR'S CONTROL BUTTONS

	On/off button.
	Unit selection button. It is used to select units (lb, oz, kg), piece-counting mode and as the Escape button in the Calibration or Setup menus. Note: You can only select a unit that is enabled. To enable/disable units, go to parameter [Units] in the Customer Setup menu.
	PLU button. Used to enter Setup or Calibration menus.

	Gross/Net button. Press shortly to see Gross or Net weights. Press and hold to enter the Checkweighing mode.
	Zero button. It sets the weight to zero. Press and hold the button to enter the Display Test mode.
	Tare button. Press to accept recipient weight placed on the scale as tare. Press and hold to access the stored tare values.
	MR and (LEFT) navigation key. Press to show accumulated total weight. In the menu mode, it is used to return to the previous step or escape from any parameter.
	M+ and (RIGHT) navigation key. In the weight accumulation mode, press it to store and add the displayed weight to the value in memory.
	1-2 and (UP) navigation key. Press to change from the scale plate to an external plate (only for double platform function scales). In the menu mode, it increases the value (number) on the display.
	MC and (DOWN) navigation key. Press it to erase the accumulated weight from memory. In the menu mode, it decreases the value (number) on the display.
	(ENTER) navigation key. Press to confirm the selection made in the programming mode. Press and hold to lock or unlock the keyboard.

3. INSTALLATION

3.1 UNPACKING AND CHECKING

Open the package and remove the instrument and the accessories. Check the completeness of the delivery.

Check the instrument for any transport damages. Immediately inform your dealer if you have any complaint or see any part missing. Your indicator package should contain:

- Indicator Sensorika 43050 or 43050-W
- Stainless steel bracket with fixing knobs
- 7 – pin connector for load cell cable (cable is not provided)
- 8 – pin connector for connection of PC, Remote display, printer or tare pedal (cable not provided)
- Rechargeable battery pack (internally installed)
- Power adapter 100 ~ 240VAC/9VDC 800mA

3.2 SELECTING THE LOCATION

The weighing indicator performs the best when working in an environment free from aggressive elements, vibrations and extreme temperature changes. These factors can affect the accuracy of the weight readings. The scale base should be placed on a stable horizontal surface away from vibration sources and strong magnetic fields.

3.3 CONNECTING INDICATOR TO A SCALE BASE

Weighing indicator Sensorika 43050(W) connects to the scale base by a 7-pin Bendix Bayonet Connector provided by manufacturer. Load cell cable from scale base should be fixed to the connector provided by electrical solder according to the load cell cable connection chart. (Fig. 3).

Safety precautions must be taken while soldering, such as wearing safety glasses and gloves. Alternatively, look for a professional or contact dealer to connect the indicator to the scale base.

NOTE: Sensorika scale bases are equipped with a 7-pin female connector and can be easily connected to the indicator.

	CAUTION RISK OF ELECTRIC SHOCK	Unauthorized and improper use of electric solder can cause electric shock
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	DANGER HOT SURFACE	Risk of severe injuries or cause a fire
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	PIN NUMBER	CABLE CONNECTION ORDER
	1	SIGNAL -
	2	SIGNAL +
	3	EXCITATION -
	4	SHIELD
	5	FREE
	6	EXCITATION +
	7	EXCITATION +

Fig. 3

After connector has been soldered, proceed to connect the scale base cable to the indicator.

	Be sure that Indicator is switched off when connecting or disconnecting load cell cable.
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3.4 CONNECTING PORT RS232

Solder communication cable to the 8-pin connector provided according to the connection chart.

	PIN NUMBER	CABLE CONNECTION ORDER
	1	PRINTER CONNECTION RXD2
	2	PRINTER CONNECTION TXD2
	3	PRINTER CONNECTION GND2
	4	TARE PEDAL
	5	PC OR SCOREBOARD CONNECTION RXD1
	6	PC OR SCOREBOARD CONNECTION TXD1
	7	PC OR SCOREBOARD CONNECTION GND1
	8	TARE PEDAL

Fig. 4

3.5 AC & DC POWER

The Sensorika 43050(W) runs on AC power adapter or rechargeable battery.

Connect the AC power cord to a power outlet. The power plug is in European power socket style. Please use a socket adapter if you will use it in other regions with different electric power socket styles.

NOTE: Sensorika Technologies does not provide power socket adapters.

The weighing indicator display shows the status of the battery load. When the battery load level is low, there is no load bar and the battery-charging symbol blinks.

4. OPERATING THE INDICATOR

	<p>Weighing indicator Sensorika 43050(W) is not suitable for use in hazardous areas.</p>
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Once the indicator and scale base are connected and installed, follow the Calibration and Setup menu to obtain a desired setting of the scale.

RECOMMENDATION: Warm up the scale before calibration. Switch the scale on and let it stay for at least 1 hour before entering the calibration mode.

4.1 CALIBRATION MENU TREE

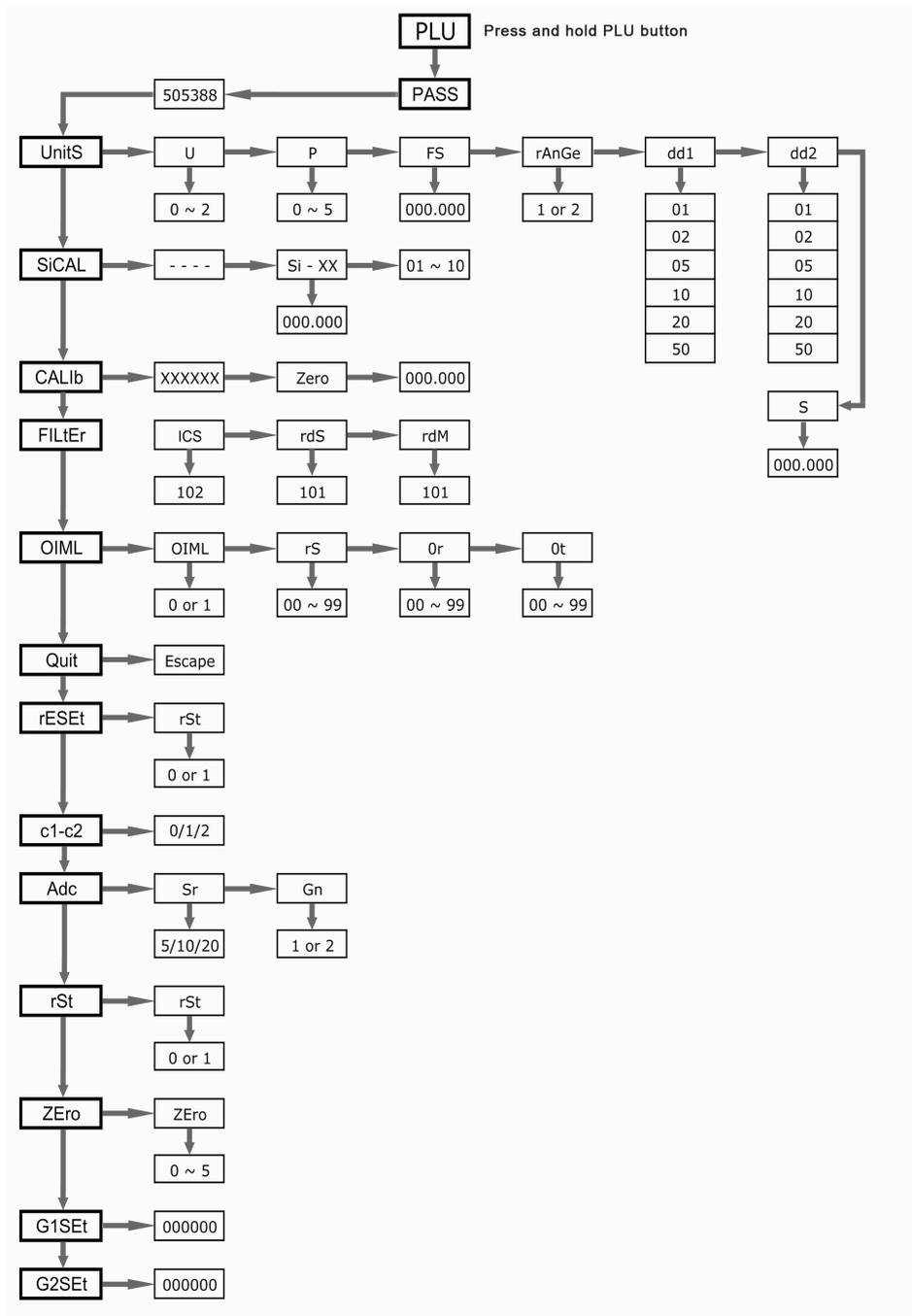


Fig. 5

4.2 SETUP MENU TREE

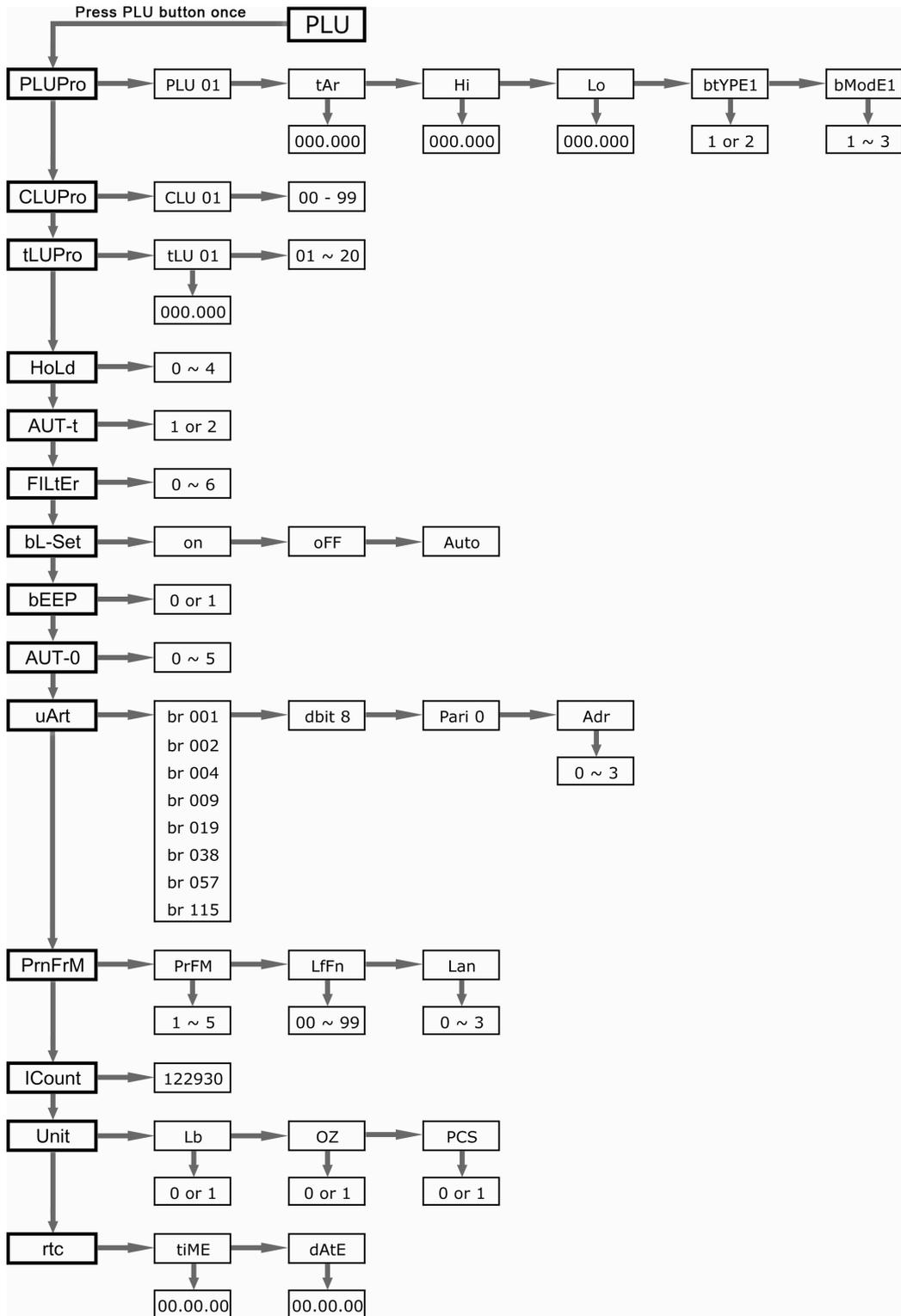


Fig. 6

4.3 MENU DESCRIPTION

Sensorika 43050(W) has two different menus - Calibration menu and Customer Setup menu. Enter these menus using (PLU) button.

4.3.1 CALIBRATION MENU

Press and hold (PLU) button until display shows [PASS]

PASS	Press (ENTER) . Use (RIGHT) , (LEFT) , (UP) and (DOWN) navigation keys to enter the password 505388 and press (ENTER) key.
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Use **(Right)** and **(LEFT)** navigation keys to navigate through menu, **(ENTER)** key to enter the sub-menus and confirm settings, then **(UP)** and **(DOWN)** navigation keys to select values. Use **(U)** button or **[Quit]** to escape from Calibration menu.

Units	Units submenu. This function allows you to setup: 1. Calibration weighing units: U 2. Decimal place: P 3. Full scale capacity: FS 4. Selection of single or double range: RANGE 5. Scale weighing divisions: dd1 and dd2 6. Break weight for dual weighing mode.
U 0	Calibration weighing units. Setup weighing units to calibrate the scale: kg – 0 (by default) g – 1 lb – 2
P 3	Setup the number of decimal places on weighing display: 0 – 0 (no decimal point) 1 – 0.0 2 – 0.00 3 – 0.000 4 – 0.0000 5 – 0.00000
FS	Full scale capacity. Input the desired value using the navigation keys. Be aware that the total scale capacity cannot exceed the load cell capacity.
rANGE 1	Set weighing range: 1 - single 2 - dual
dd1 02	Scale weighing division: 01, 02, 05, 10, 20, 50. If you select single mode, set this value and press (ENTER) key to return to the beginning of [UNITS] menu. If you select dual range mode, proceed to the next step.
dd2 05	Secondary scale weighing division. In dual mode, you need to setup a secondary scale division and a break weight value. (Example: If the scale's total capacity is 30kg and you want to weigh with a precision of 2g up to 10kg, and then a precision of 5g from 10kg to 30kg, set value dd1 - 02, dd2 - 05 and than set break value 10.000.)
010.000	Set the break value for dual mode and press (ENTER) key.

S, CAL	Linear calibration mode. This mode allows liner calibration to minimize non-linearity parameter. You can perform up to 10 calibrations within the scale's capacity. Generally 2-3 calibrations are sufficient to reduce non-linearity to the acceptable tolerance level of Legal Metrology (even on old scales). Remove weight from the scale, let it stabilize and press (ENTER) key. It will calibrate with Zero weight.
S, - 01	Press (ENTER) again, input the value of your first calibration weight, apply weight to the scale platform, let it stabilize and press (ENTER) . The indicator will now show [Si-02] . Repeat procedure for the next calibration weight. Press (LEFT) navigation key to return to the Calibration menu.

CAL 16	Simple calibration mode. This mode allows simple calibration when linear mode is not required. Press (ENTER) key, you will see 6 digits number constantly changing. This value is internal counting of the analog/digital converter . It shows that load cell status is OK. Press (ENTER) to continue.
ZEro	Calibration of zero. Remove weight from the scale, let it stabilize and press (ENTER) key. Scale will calibrate with zero weight. Input the value of calibration weight, apply weight to the scale platform, let it stabilize and press (ENTER) key. Scale is calibrated now.

Quit	Press (LEFT) navigation key until display shows [Quit]. Press (ENTER) key to save the changes and exit from Calibration menu.
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4.3.2 CALIBRATION MENU - ADDITIONAL FUNCTIONS

FiLteR	Indicator's internal filter value. Press (ENTER) to view. NOTE: this is not a filter used for performance speed adjustment. For performance speed adjustment, see parameter [FiLteR] located in Setup Menu.
1c5102	Weight catching time. Factory default is 102.
rd5101	Deviation data. Factory default is 101.
rdm101	Increased data. Factory default is 101. Press (RIGHT) navigation key twice to proceed to next parameter.

OimL	OIML submenu belongs to the OIML requirements of weighing indicators. [OIML 0] – Manual setting [OIML 1] – OIML auto settings. Choose value 1 to automatically setup below 3 values according to the OIML requirements.
r5 02	Percentage range of scale's full capacity that can be set to zero by pressing (ZERO) button. Value can range from 0 to 99%.
Or 16	Percentage range of scale's full capacity that the scale takes as Zero value when it is switched on. Value can range from 0 to 99%.
0t 40	Percentage range of scale's full capacity for automatic Zero tracking. Value can range from 0 to 99%.

Quit	Parameter [Quit] is used to save changes and escape from Calibration menu.
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rESEt	IMPORTANT! This function resets all settings to factory defaults.
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c1-c2	Dual platform mode indicator. This weighing indicator can be used with two platforms simultaneously (factory installation required). Select 0 to use one platform and invisible display indicator (Fig. 2 pos. 13); select 1 to use one platform and visible display indicator; select 2 to use 2 platforms and visible display indicator.
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	<p>[Adc Sr] - Sampling speed. Factory default is 20. [Adc Gn] - Amplifying rate. Factory default is 2. Generally don't make any changes in this parameter unless you are familiar with the software.</p>
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	<p>This parameter is used to reset negative weight to zero when parameter [OIML] is activated (set to 1). (Example: if parameter OIML is activated and some dead weight such as scale weighing pan was removed from the platform, it will show a negative value which cannot be reset to zero by pressing the (ZERO) button. In this case, set parameter [rSt] to 1 and press (ENTER). It will now set the weighing value to zero).</p>
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	<p>This parameter is used to adjust the minimum display weight. 0 – 1d 1 – 2d 2 – 3d 3 – 4d 4 – 5d 5 – 6d (where d is scale weighing division)</p>
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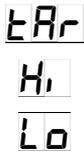
	<p>Factory gravity compensation value. Gravity value at the place where the scale is calibrated.</p>
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	<p>Customer gravity compensation value. Gravity value at the place where the scale is used. If it is used at the place where it was calibrated, [g1Set] and [g2Set] should be the same.</p>
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4.3.3 SETUP MENU (CUSTOMER SETTINGS)

Press **(PLU)** button, display will show **[PLUPro]**.

4.3.3.1 CHECKWEIGHING FUCTION SETUP

	<p>This parameter is used to setup Checkweighing values and store them in memory for up to 20 different target weights. Press (ENTER) key to begin.</p>
	<p>First target settings. Press (ENTER) to continue.</p>
	<p>[tAr] will appear shortly and then indicator requires an input of target value using (RIGHT), (LEFT), (UP) and (DOWN) navigation keys. Press (ENTER) when finishing input. Input [Hi] and [Lo] values. These are the absolute values of the differences between target weight and high/low allowed weights (Example: target weight = 1.0kg, maximum allowed weight = 1.1kg, minimum allowed weight = 0.9kg. $[Hi] = 1.0 - 1.1 = -0.1 = 0.1\text{kg}$, $[Lo] = 1.0 - 0.9 = 0.1\text{kg}$ Set up [Hi] = 0.1 and [Lo] = 0.1.) Generally these values are the same but you can input different values if required.</p>
	<p>Select alarm mode: 1 – weight within range alarm</p>

	2 – weight out of range alarm.
	Select auditable alarm type: 1 – alarm disabled 2 – beep once 3 – continuous beeps. Press (ENTER) key. Display shows [PLU 02] . Proceed to the next set point.

4.3.3.2 **PIECE-COUNTING FUNCTION SETUP**

To set up piece counting, first select piece-counting mode using **(U)** button. The counting mode indicator appears on the right side of the display window (fig.2, pos. 10). Press and hold **(U)** button for more than a second, a flashing number 10 will appear. Set up the sample quantity you want to use, from 10 to 100 (for small items as larger sample quantity more precise the counting operation) than press **(ENTER)**. The sample value will continue flashing for 5 seconds then stops. Your scale is ready for piece counting.

NOTE: You lose your sample settings when the scale is turned off, unless you save the sample weights in memory.

You can save up to 100 sample values in memory of weighing indicator.

When the scale is in piece-counting mode and sample value already configured, press **(PLU)** button once, display will show **[PLUPro]**. Use **(RIGHT)** navigation key to reach **[CLUPro]**, press **(ENTER)** key.

	Use navigation keys to select the memory number where the sample value will be stored, press (ENTER) to save. Your indicator returns to [CLUPro] parameter after the sample weight is stored.
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To recall a stored sample value, enter to piece-counting mode using **(U)** button, then press and hold **(B/N)** button until display shows **[CLU 01]**. Input a memory number where stored desired value and press **(ENTER)**.

4.3.3.3 **DIGITAL TARE FUNCTION SETUP**

Place the container or other object that you want to tare and press the **(TARE)** button. The scale will then take the object as tare and display the net weight. Press **(B/N)** button to toggle between Gross weight and Net weight.

Sensorika 43050(W) can store up to 20 digital tares in the indicator's memory. This function is very useful when Gross and Net weight are both required but its impossible to separate the products from their packaging (bucket, pail, pallet, etc). If the weight of packaging is known, it can be manually stored in the indicator's memory and be used later. Follow these steps to save digital tares in memory.

Press **(PLU)** button. Use **(RIGHT)** navigation key to reach **[tLUPro]**.

To recall a digital tare from the memory, press and hold **(TARE)** button until **[tLU 01]** message appears. Select the number of memory where your digital tare is stored and press **(ENTER)**. The tare value will be displayed.

	Press (ENTER) , select one of the 20 memories designated for digital tares, press (ENTER) again, enter the value of digital tare you wish to store and press (ENTER) to save it. Your indicator will now return to [tLUPro] . Repeat the same procedure if you wish to store more tares.
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4.3.3.4 HOLD FUNCTION SETUP

	<p>Hold submenu has 5 values to select:</p> <p>0 – hold function is off.</p> <p>1 – indicator captures peak values. Press (ZERO) button to drop value to zero.</p> <p>2 – indicator captures value when weight is stable (stability indicator is on). Press (ZERO) button to drop value to zero.</p> <p>3 – hold function activates together with stability indicator. Weighing indicator holds the value when weight is on the weighing platform. Once weight is removed, display returns to zero.</p> <p>4 – hold function activates together with stability indicator. Weighing indicator holds the value even when weight is removed from the weighing platform. New hold value appears when a new object is placed on the weighing platform.</p>
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4.3.3.5 AUTO TARE FUNCTION SETUP

Sensorika 43050(W) can automatically take the weight of recipient as tare, weigh the product and reset scale to zero once the recipient with product is removed from the platform.

Press **(PLU)** button, scroll menu with **(RIGHT)** key until display shows **[Aut-t]**, press **(ENTER)** and select 1 to enable Auto Tare function or select 0 to disable it.

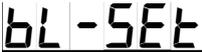
4.3.3.6 FILTER FUNCTION

	<p>This function is used to adjust the sensibility of the scale. Filter submenu has 6 filter levels to adjust.</p> <p>0 - Scale response is very fast but it can be unstable if scale division is small. Optimum for dynamic weighing.</p> <p>6 – Scale is very stable but the response is too slow. Optimum for unstable weighing objects such as liquids or animals.</p> <p>You should decide the appropriate filter level based on your implementation.</p>
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4.3.3.7 ANIMAL WEIGHING FUNCTION

Sensorika 43050(W) doesn't have a special submenu for animal weighing but it can be easily set up by combining two functions - Hold and Filter. Set the Hold function to level 4 and Filter function to level 4, 5 or 6 depending on animal weight. Now you can use your scale to weigh animals.

4.3.3.8 BACKLIGHT FUNCTION

	<p>Select one of the 3 available options:</p> <p>On – backlight always on.</p> <p>Off – backlight always off.</p> <p>Auto - backlight automatically switched off after 5sec when stability indicator appears.</p>
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4.3.3.9 SOUND (BEEP) FUNCTION

In submenu **[bEEP]**, select 1 to activate audible keypad sound or select 0 to deactivate it.

4.3.3.10 AUTO POWER OFF FUNCTION

When display shows **[Aut-0]** press (ENTER) key.

	<p>Auto off mode can be set between 0 and 4.</p> <ul style="list-style-type: none"> 0 – auto off function is disable 1 – off after 2min without use 2 – off after 3min without use 3 - off after 5min without use 4 - off after 10min without use
---	--

4.3.3.11 COMMUNICATION WITH PRINTER OR PC

Scroll Setup menu until display shows **[uArt]**, press (ENTER) key.

	<p>The first parameter [br XXX] is used to set communication speed (bauds) to following values:</p> <ul style="list-style-type: none"> 001 – 1200 002 – 2400 004 – 4800 009 – 9600 019 – 19200 038 – 38400 057 – 56800 058 – 115000
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Following parameters **[dbit]** and **[PAri]** are fixed and cannot be modified. These parameters show the length of transmitting protocol and parity.

	<p>This parameter is used to set the mode of transmitting of communication protocol for Remote display or PC.</p> <ul style="list-style-type: none"> 0 – transmitting is disabled 1 – normal transmitting constantly 2 – inverse transmitting by demand using (ENTER) navigation key 3 – inverse transmitting constantly <p>Parameters 2 and 3 are for scoreboard communication.</p>
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4.3.3.12 SETUP PRINTING FORMAT

Five different printing formats in four languages can be selected in submenu **[PrnFrM]**.

	<p>Use navigation keys to select printing format. Press (ENTER) to confirm. See below examples of printing formats.</p>
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Format 1:

Weighing number	#00003
Net	2.050kg
Tare	0.000kg

Format 2:

-----	-----
Weighing number	#00003
Net	2.050kg
Tare	0.000kg
Gross	2.050kg

Format 3:

-----	-----
Weighing number	#00003
Unit W	0.005kg
Tare	0.000kg
Gross	2.050kg
Net	2.050kg
Quantity	410pcs

Format 4:

-----	-----
Weighing number	#00003
Unit W	0.005kg
Gross	2.050kg
Net	2.050kg
Quantity	410pcs

Format 5:

Weighing number	#00003
Target weight	1.000kg
Actual weight	0.950kg
Diviation	-0.050kg

LFn 01

Set number of empty lines between the printed data blocks.
Value can range between 00 and 99.

LAn 0

Select one of the four languages for printing:
0 – English
1 – Spanish
2 – French
3 – German

4.3.3.13 A/D CONVERTOR TEST

I Count

Diagnostic of Analog/Digital converter. Press (ENTER) to view.

You will see six digits and some of them are constantly changing. It shows the Analog/Digital convertor is functioning. This information is useful for technical diagnostic of weighing indicator and load cell. In most cases, our Technical Department is able to diagnose indicator or load cell failure with this 6-digits number provided.

4.3.3.14 WEIGHING UNITS ENABLING/DISABLING

Navigate to submenu [Unit]. There are 3 weighing units that can be enabled or disabled: lb, oz and counting function. Set value to 0 to disable; 1 to enable (default unit is kg cannot be disabled).

4.3.3.15 TIME AND DATE SETTING

This function is an optional feature and can be requested from manufacture.

Navigate to submenu [rtc].

tImE

Display will show [tImE]. Press (ENTER) key to set up time. Six digits time format will appear. Press (ENTER) for the next step.

dAtE

Display is showing [dAtE]. Press (ENTER) key to set up date. Six digits date format will appear. Set date format and press (ENTER) to confirm.

4.3.4 ADDITIONAL KEY FUNCTIONS

4.3.4.1 WEIGHT ACCUMULATION

Sensorika 43050(W) can accumulate weight values on demand. When a weight is applied to the platform, press (M+/RIGHT) navigation key. The weight of the load will be stored in memory of the indicator. Remove weight from the platform. Check that the display reading shows zero, apply a new weight and press (M+/RIGHT) key again. The new weight will be added to the previously value stored in

memory. You can accumulate as many weights as you need. To see the accumulated weight, press **(MR/LEFT)** key.

To erase the accumulated weight from the memory, first press **(MR/LEFT)** key to display the accumulated weight, then press **(UP)** key followed by **(DOWN)** key. The accumulated weight is now erased.

4.3.4.2 LOCK KEYBOARD

To lock the keyboard, press and hold **(ENTER)** key until message **[Loch]** appears on the display. To unlock the keyboard, press and hold **(ENTER)** key again until **[UnLoch]** message appears.

Most keys are disabled when keyboard is locked.

5. LIMITED WARRANTY

Sensorika Technologies products are warranted against defects in material and workmanship from the date of purchase through the duration of the warranty period. During the warranty period, Sensorika Technologies will repair or, at its option, replace any component(s) that proves to be defective at no charge.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, penetration of foreign materials to the inside of product, or as a result of service or modification made by anyone other than Sensorika Technologies or its authorized distributors and/or service centers.

6. SHIPPING INFORMATION

Indicator weight	2.20kg
Shipping packing dimensions	26cm x 26cm x 15cm
Shipping weight	2.50kg