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# USER MANUAL

## Indicator Series Si-10



Si-10



Si-10S



Si-10SP

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# 1. INTRODUCTION

This document contains information about how to install and operate indicator Si10xx. Please read carefully the manual before using the device.

## 1.1 PRECAUTIONS



- Use the manufacturer approved power adapter provided with the scale. The use of improper type of adapter could damage the device.
- Do not place loads heavier than the maximum weight limits specified in this document.
- Place loads carefully on the weighing pan.
- Do not immerse the scale in water or any other liquids.
- Do not use the scale in hazardous environments.
- The scale should be used in environments free from dust, high humidity, corrosives, vibrations, extreme temperature fluctuations and excessive air movements.
- Do not place the scale on unstable surfaces.
- Avoid placing the scale near heaters or in direct sunlight.
- Switch off and disconnect the scale from the power supply before cleaning or servicing.
- Always grab the scale from the bottom when moving, do not grab the weighing pan.
- Disposal of this product and its accessories should be in accordance with your local regulations.

## 1.2 WARNINGS

Read this section carefully before installation of the Si10 indicator.

- Before start using the instrument, check if the voltage indicated on the AC/DC adaptor label is the same as the local power supply. If it is not, do not connect the scale to the power line (*Contact with instrument representative*).
- Before energizing the instrument, check all connectors are installed properly. All external cables should be installed safely to avoid mechanical damages.
- The scale should only be used under proper environmental conditions indicated in this operation manual.
- Do not use this scale in places where there are unstable conditions or explosive danger.
- Do not place the scale near heat sources or under direct solar radiation influence.
- Keep the scale far away from other electromagnetic radiation sources. Its influence could affect the weighting precision.
- When low-battery announcement appears, the battery should be charged. If the battery remains discharged for a long time, it deteriorates and could stop working.

Every month battery charging is recommended for long time battery life, if the indicator is not used.

- Use only original battery for your instrument safety.
- Disconnect from power supply and take out internal battery located on the bottom of the instrument and wait for 3 minutes before interfering the instrument.

In the case of any inconvenience of your application to the above items, contact with instrument representative.

### **IMPORTANT**

*In case of breakdown or inappropriate operation working due to an inadequate following of the instructions given before, the guarantee right will be lost.*

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### 1.3 FEATURES

- Large segment display with 32mm digit height
- Multicolor backlight
- Programmable to g, kg, t weighing units
- Single range or Multi range operation
- Linearity correction
- Hold and Auto Hold function
- Tare
- Auto tare
- Real time clock (option)
- Tilt switch input
- Remote weight indicator operation
- Check weighing function for Hi/OK/Low with visual and acoustic announcement
- Piece counting function
- Dynamic load weighing function
- Accumulation function
- Automatic power off
- RS 232C data output for printer, PC or remote display connection.
- 100 – 240 VAC, 50-60 Hz / 9 VDC, 0.6A regulated power adaptor (specified by ordering).
- Optional second RS-232C data output (PC and printer).

## 1.4 TECHNICAL DATA

The indicators have the following characteristics

Model	OIML
Type:	Si-10 / Si-10S / Si-10SP
Accuracy class:	III and IIII
Weighing range:	Single interval or multi-interval
Maximum capacity (Max):	0.6kg to 150 000kg
Minimum capacity (Min):	≥ 20e for class III ≥ 10e for class IIII
Verification scale interval (e=):	≥ 0.1g for class III ≥ 5g for class IIII
Maximum number of Verification Scale Intervals:	≤10000 (class III), ≤ 1000 (class IIII)
Maximum tare effect:	-Max within display limits
Mains power supply:	100-240 VAC, 50/60 Hz 9-12V VDC via external AC/DC adapter (Option)
Battery:	7.4 VDC rechargeable battery (Option)
Operational temperature:	-10°C to +40°C
Load cells:	4- wire system 6-wire system with maximum cable length 1430m/mm <sup>2</sup>

## 1.5 PRODUCT MODELS

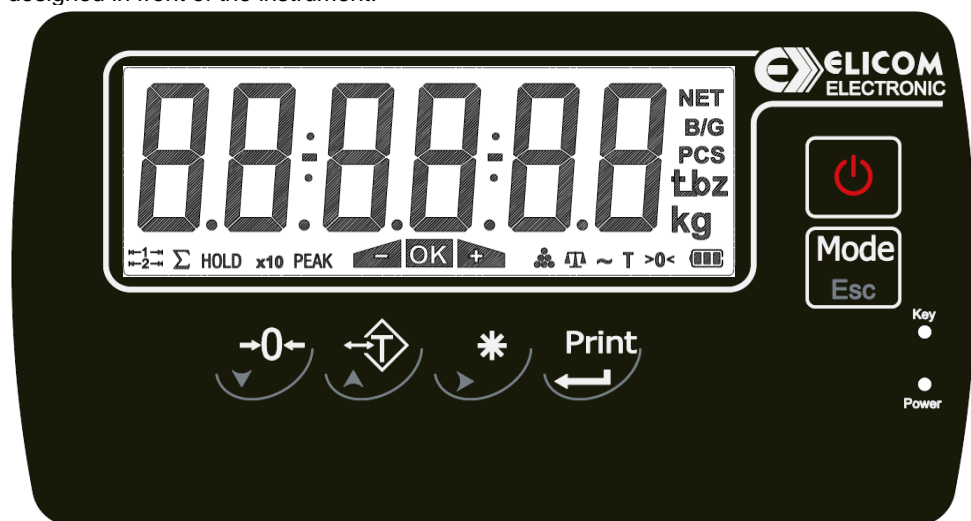
Model	OIML	Battery	Housing	Built-in printer	Power
Si10	Yes	Option	Plastic	No	100 – 240 VAC ( internal power supply) or 9 VDC ( specify at ordering )
Si10S	Yes	Option	Stainless steel	No	100 – 240 VAC ( internal power supply) or 9 VDC ( specify at ordering )
Si10SP	Yes	Option	Stainless steel	Yes	100– 240 VAC ( internal power supply)

## 1.6 PACKAGE CONTENTS

- Indicator
- Mounting bracket
- Knobs (2pcs)
- Manual
- Warranty card
- AC power cord (in internal power supply version)
- Power adapter (in external power adapter version)






## 2. KEYPAD AND DISPLAY

The indicator has segment LCD display with multicolor backlight, keys are ergonomically designed in front of the instrument.












The meanings of the icons on the display are: as follow

	Stability symbol
	Center of Zero symbol
	Weight is not stable
	Weighing unit is located on the right of the weighing display as kg, g, t.
	Battery status icon
	Weight indication is in net.
	Tare is displayed
	Displayed value shows number of pieces in counting mode.
	Indicator in in counting mode
	Weighing value is in Hold/Auto hold

	Dynamic mode is active Accumulation value is displayed
	Weight is under the limit in checkweighing mode
	Weight is within the limit in checkweighing mode
	Weight is over the limit in checkweighing mode
	Displayed weight is shown in high resolution

## Key functions

	<b>Power on/off key</b> : Hold key to power on/off the instrument
	<b>Mode key</b> : Hold to enter main menu
	<b>Mode key</b> : Double press to enter checkweighing mode, dynamic mode, Filter and x10 weighing
	<b>Escape key</b> : In menu mode, press this key to escape from menu and return to normal mode
	<b>Zero key</b> : Hold this key to adjust the scale zero, if there is any drift. Zeroing should be done if there is no any load on the platform
	<b>Clear accumulation</b> : Hold to clear accusations in accumulation mode
	<b>Arrow down key</b> : Used in input program mode
	<b>Tare key</b> : Perform a tare operation
	<b>Arrow up</b> : Used in input program mode
	<b>Switch between units</b>
	<b>Enter counting mode</b> when there is gross weight <b>Start Dynamic weighing</b> when active active
	<b>Arrow right</b> : Used in input program mode to move cursor right
	<b>Enter key</b> : Enter key when in menus
	<b>Hold key</b> : holds current weight when HOLD function active
	<b>Print key</b> : Prints receipt/label when print function active
	<b>Accumulation key</b> : prints accumulated weightings when function active



### 3. INSTALLATION

**PRECAUTION:** Please read this manual carefully before installation of the instrument. Applying the recommendations in this section will increase your system reliability and long term performance.

The scale should be placed as clean as possible area, not getting direct sun light if possible, with a temperature between -10 °C and +40 °C, humidity not exceeding 85% non-condensing. All external cables should be installed safely to avoid mechanical damages. Scale instruments are very low level signal measuring instruments. To avoid electrical noise, scale should be separated from the equipment that produces electrical noise.

#### 3.1 BATTERY

The indicator can be operated on the internal rechargeable battery when AC power is not available. The indicator will automatically switch to battery operation if there is a power failure or the power cord is removed.



**Note:** Before using the indicator for the first time, the internal rechargeable battery should be fully charged for up to 12 hours. The indicator can be operated during the charging process. The battery is protected against overcharging and the indicator can remain connected to the AC power line.

Connect AC power to the indicator and allow it to charge. The indicator can operate for up to 100 hours on a fully charged battery.

The indicator will display Lo.BAT and automatically turn off when the battery is fully discharged.

#### CAUTION

BATTERY IS TO BE REPLACED ONLY BY AN AUTHORIZED SERVICE DEALER.

RISK OF EXPLOSION CAN OCCUR IF REPLACED WITH THE WRONG TYPE OR CONNECTED IMPROPERLY.



Dispose of the lithium battery according to local laws and regulations.

#### 3.2 PERIPHERAL CONNECTIONS

**Warning:**

1. Please always remember that Si30 indicator is very low voltage measuring instrument. Please do not forget that the instrument must be powered off before inserting or removing any peripheral connector.
2. The quality of instrument's grounding will provide weighing accuracy and the safety of your indicator. If the energy condition of your plant is bad, prepare a special power line and grounding.
3. All required electrical connections should be done as described below.

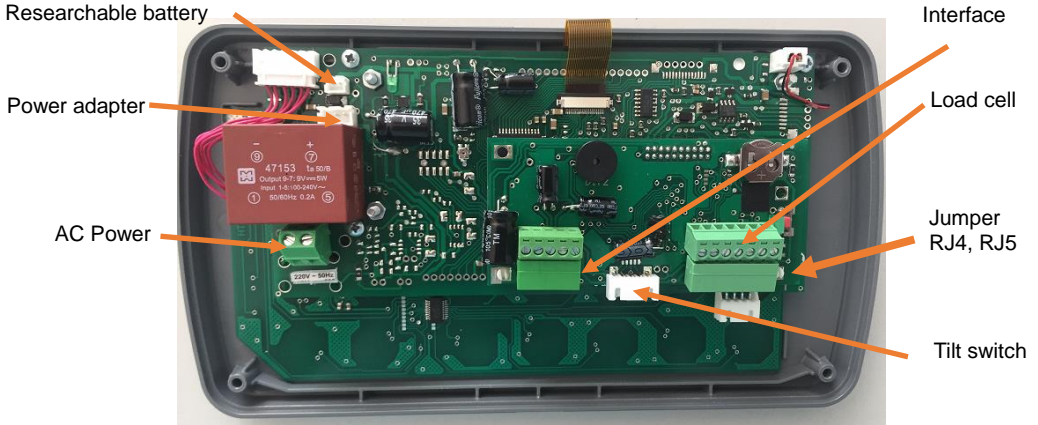
### 3.2.1 MAIN BOARD WIRING CONNECTIONS

To avoid damages, the load cell wiring should be made carefully before energizing the instrument. Load cell connection detail is shown in Figure 3..

**In 4-wire installations** jumpers **RJ4** and **RJ5** must be **shortened**. The two jumpers are located right from the load cell connector.

If you have junction box in your system, use 6 wire cable between indicator and the junction box.

**In 6-wire installation** you must **remove RJ4** and **RJ5**

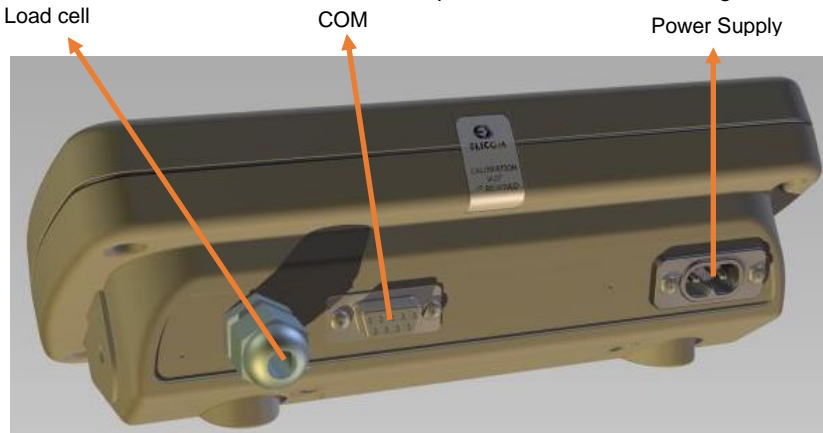


**Figure 3.2.1.1** Main board connections AC model

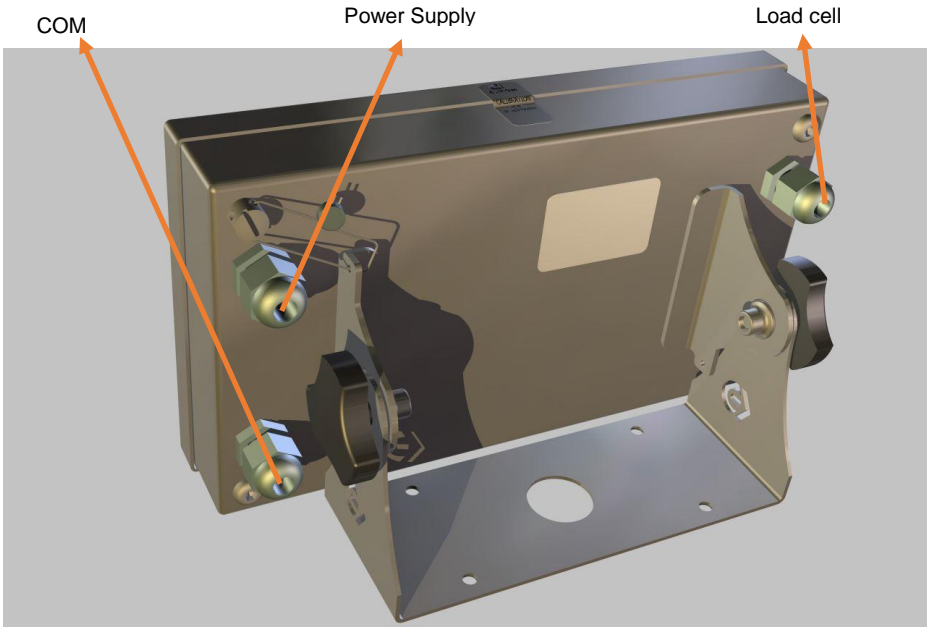
The electrical connectors of I10 are located at the bottom of the indicator as seen below left and electrical terminals of I10S are located on the printed circuit board in the housing as seen below right.

### 3.2.2 EXTERNAL CONNECTIONS

To avoid damages, the load cell wiring should be made carefully before energizing the instrument. Load cell connection, Interface and power detail is shown in Figure 3.



**Figure 3.1** External connection Si10 AC model



**Figure 3.2** External connection Si10S AC model

### 3.2.3 LOAD CELL CONNECTION

To avoid damages, the load cell wiring should be made carefully before energizing the instrument. Load cell connection detail is shown in Figure 3..

**In 4-wire installations** jumpers **RJ4** and **RJ5** must be **shortened**. The two jumpers are located right from the load cell connector.

If you have junction box in your system, use 6 wire cable between indicator and the junction box.

**In 6-wire installation** you must **remove RJ4** and **RJ5**

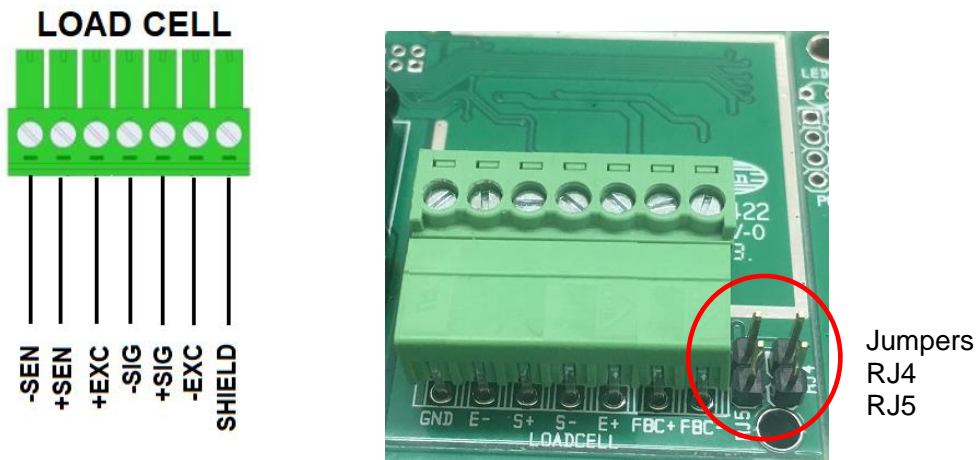


Figure 3.3 Load cell termination internal connector

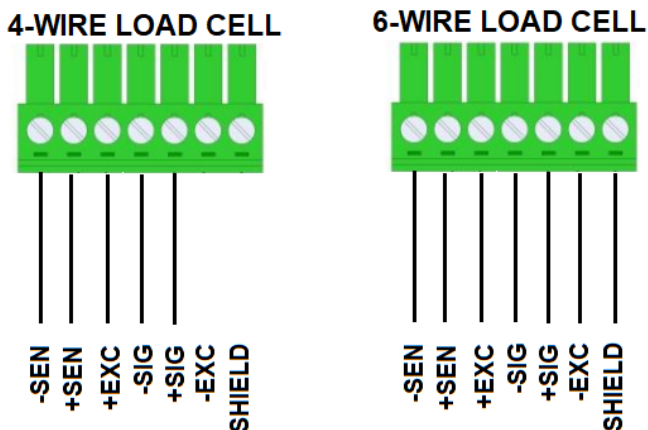
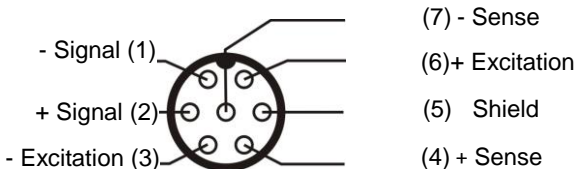


Figure 3.4 4-wire and 6-wire connection



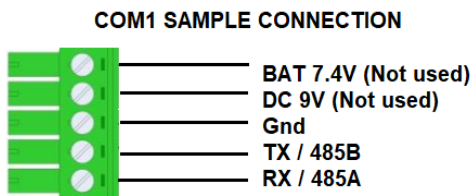
**Figure 3.5** Load cell external connector (when equipped)

**Warning:** Always place jumpers RJ4 and RJ5 for 4 wire connection. Non-placed jumpers may cause the wrong Excitation voltage measurement and create an accuracy problem.

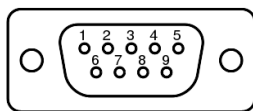
**Warning:** Connect the load cell cable shield to the reference ground or shield pin of the load cell connector.

### 3.2.4 SERIAL PORT CONNECTIONS

The COM1 port provides an RS-232/485 connection for external serial devices. Figure 3.5 indicates indicator internal signals on the COM1 port. Figure 3.5 indicates external port signals on DB9 connector. Make the connections as necessary.



**Figure 3.5** Sample COM1 internal termination connection



DB9 Male

Signal	Male DB9	
	COM1	COM2
TXD	2	8
RXD	3	7
GND	5	5

**Figure 3.6** Sample COM1 and COM2 DB9 external connector

### 3.2.5 POWER SUPPLY CONNECTION AND GROUNDING

The instrument shall be used with regulated 9 VDC adaptor supplied with the instrument in version with external adapter or with AC cord when supplied with internal power supply.

Before connecting the power supply, check that voltage written on the AC/DC adaptor is same as the local power supply. If it is not, do not connect the scale, and contact your authorized representative. If voltage is correct, connect the plug on the power cable to the power supply.

The protected ground shall be connected to the 230 VAC powered instrument against the safety and electrical disturbances.

After the scale has been connected, it performs a display test. When the display shows zero, the scale is ready for operation.

### 3.2.6 CHECK SCALE PERFORMANCE


**Warning:**

1. *Scale set-up and calibration should be done according to your application. Please read this document carefully and select parameter values which will fit your application before programming the instrument.*
2. *You cannot change Set-up parameter values and calibration after sealing the instrument in legal usage. Be sure proper adjustments you done before sealing the scale.*

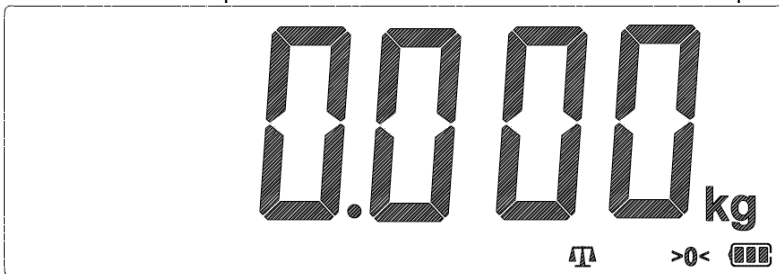
Check scale accuracy by loading it with test weights before usage. If there is any error, call the authorized technician to adjust the scale.

## 4. OPERATION



Press  to power on the indicator. Scale activates the display for a few seconds then scale version is displayed. After start up cycle, weight value is displayed.

(--0-- ERR) prompt at power on announces zeroing range at the power on is exceeded or scale was not unloaded at power on. The scale should be unloaded before power on.




**Figure 4.1** Weight display.


Place the object you desire to weight over the scale. Weight of the object is displayed on the display.

## 4.1 ZEROING

Zeroing is done to compensate deviations from zero of the unloaded pan.

1. Clean the unloaded platform and check if there is anything touching the platform.

2. Hold  key to compensate zero deviation. Zeroing is done if the scale is stable and in zeroing range.

3.  Symbol appears to indicate that zeroing is done and the scale is at center of zero.


4. If zeroing is not done properly, press  key again.

## 4.2 AUTO TARE

When Auto Tare is set ON from the WEIGHING FUNCTIONS menu, the initial item placed on the scale is automatically tared.


The tare value is automatically cleared when the weight on the scale is fully removed.

## 4.3 CHANGING UNITS OF MEASURE

Hold  until the desired unit of measure is displayed, then release the button. Unit change is active only when scale is at zero.

**NOTE:** Only units of measure must be enabled from WEIGHING FUNCTIONS menu if unit change is allowed from the scale built menu which is jumper protected function

## 4.4 PRINTING DATA

Press the  button to send data to a printer or computer.

**NOTE:** To ensure that the desired data is output correctly, first set the printing parameters and the communication parameters  
Print is allowed only when weight is stable

## 4.5 PRINT QUICK EDIT

You can easily change basic printing information with short cut menu.  + 

**LABEL – choose label # form to print**

Possible label form editable by label editor:

- 01 – Default
- 02 – Optional
- 03 – Optional
- 04 – Optional



To change press



Press to go to next parameter

**LOT-1**

Used in labeling mode

Enter up to 15 numbers

Use arrow Up, Down, Right to input



Press to go to next parameter

**LOT-2**

Used in labeling mode

Enter up to 15 numbers

Use arrow Up, Down, Right to input



Press to go to next parameter

**LOT-3**

Used in labeling mode

Enter up to 15 numbers

Use arrow Up, Down, Right to input



Press to go exit menu

**01**  
**LABEL**

**0**  
**LOT-1**


**0**  
**LOT-2**

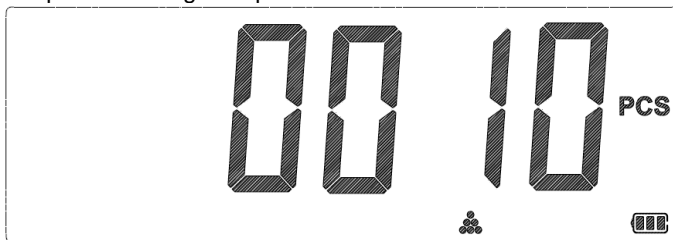
**0**  
**LOT-3**



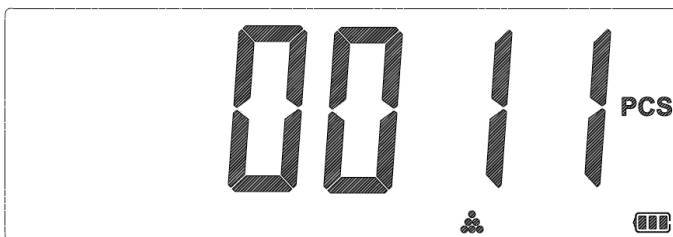
## 4.6 PIECE COUNTING

Use this mode to count parts of uniform weight.

To start counting, place known quantity of parts on scale and hold  Display will show parts counting set up.



Enter the number of parts corresponding to the weight and start counting by pressing




To exit parts counting mode hold

### 4.6.1 COUNTING PIECES INTO A CONTAINER

For counting parts in the container, place the empty container on the scale and tare it by



holding the  key. After taring the scale perform counting of the parts as described in section 4.6 or call are preset counting part.


**Note:** The result of the Piece Counting is no a legal value

## 4.7 CHECKWEIGHING

Indicator Si10 is specifically designed for checkweighing with Color changing backlight, acoustic signal and visual displaying of Hi, OK, Lo

Use this mode to compare the weight of items to a target weight range.





To enter Checkweighing mode double press  button until message **SELECT HI-LO** is displayed.




Select menu HI-LO and confirm with  button to basic check weighing settings.


In this menu you have to enter the following data:

-  LO: 000.000 – Enter weight of Low target limit
-  HI: 000.000 – Enter weight of Hi target limit
- Auto- 0/1 – If you want weighing limits to be stored and remembered after indicator reset you must activate parameter Auto -1

When Auto=0 indicator will start with the set checkweighing parameters

- START HI-LO – confirm with  to start checkweighing




To exit checkweighing mode press  button.


**Note:** Target weight is the weight between Low and Hi weight limits and it is shown with OK, followed by sound or blinking screen depending on checkweighing set up.


**Note:** Checkweighing function must be activated and advance set up from CHECKWEIGHING SETUP. Refer to section 6. CHECKWEIGHING SETUP

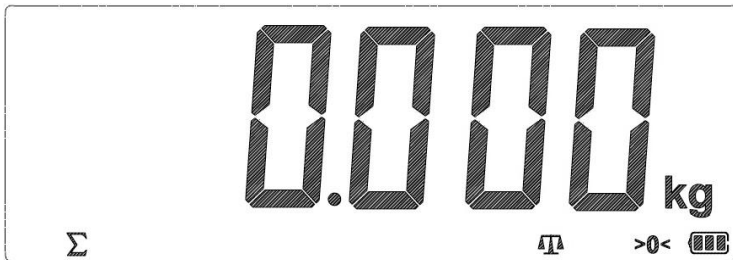
#### 4.8 DYNAMIC WEIGHING


Use this mode to weigh moving items such as live animals


To enter dynamic weighing mode double press  button until message. **DYNAM WEIGHT** is displayed

Select menu WEIGHT DYNAMIC and press  button to activate it.

When dynamic weighing is active icon  is blinking and display shows message „**START/current Weight**”



To start Dynamic weighing, place weight on the load receptor and press  button

Dynamic weighing will stop when scale is unloaded or when  is pressed.


**Note:** The result of the Dynamic weighing will be on hold for 8 sec. And will be cleared

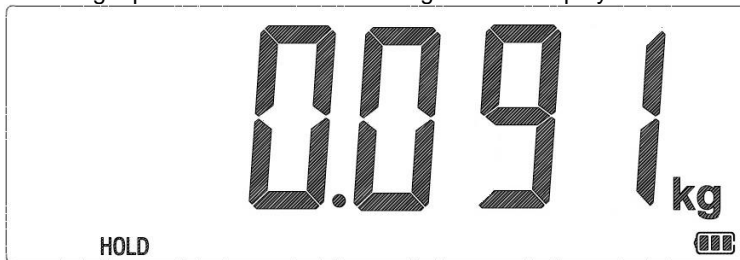
**Note:** The result of the Dynamic weighing is no a legal value

**Note:** Dynamic weighing function must be activated from WEIGHING FUNCTIONS. Refer to section 8

#### 4.9 HOLD

Use this mode when current weight must be placed on hold on the display.

To hold current weight press  and hold weight will be displayed as shown



Hold weight will be displayed for 7sec. or until cleared by  button.

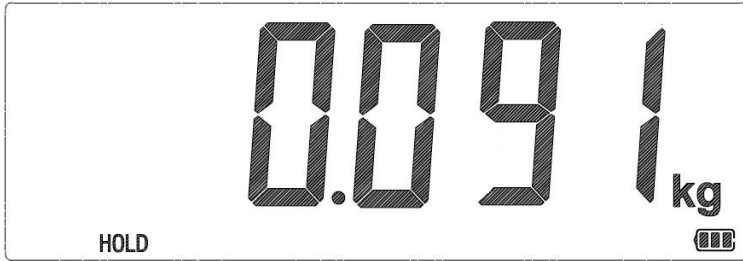
**Note:** Hold weight function must be activated from WEIGHING FUNCTIONS. Refer to section 8.

When Hold function is active Auto print function is not active

#### 4.10 AUTO HOLD

Use this mode when weighing a large objects which cover the display.

Place weight on the scale and when weighing is stable the weight will stay on hold as shown



**Mode**  
**Esc**

Hold weight will be displayed for 7sec. or until cleared by **Esc** button.

**Note:** Auto Hold weight function must be activated from WEIGHING FUNCTIONS. Refer to section 8.

When Hold function is active Auto print function is not active

#### 4.11 EXPANDED RESOLUTION 10X

Use this mode to see weighing in high resolution.

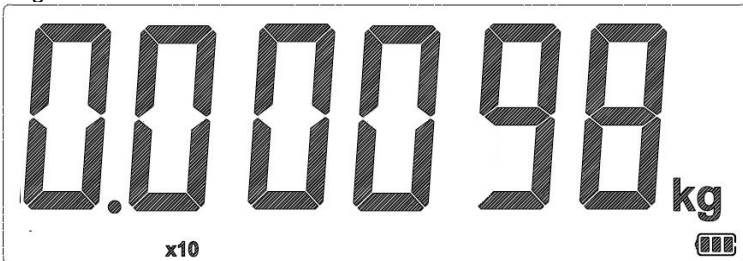
To activate this mode:

**Mode**  
**Esc**

Double press **Esc** button to access quick operation menu. Press **Mode** until parameter - **H10** - shows.

To activate high resolution readout set x10 to 1.

**Mode**  
**Esc**



The indicator will show extended resolution (d=0.1) for 4 sec.


## 4.12 TOTALIZATION

Totalization function is used to accumulate different weighing values, when activated all

weighing are accumulated by pressing the  button. If printer is connected a printout is made for each weighing.

To see current accumulations press the  button when scale is free of weight and indication is at zero.

To print current accumulations press the  button when totalized menu is shown

To clear current accumulations hold the  to delete accumulations

To exit Totalization menu press



**NOTE:** Totalization function must be activated from PRINT SETUP menu.  
Refer to section 9.

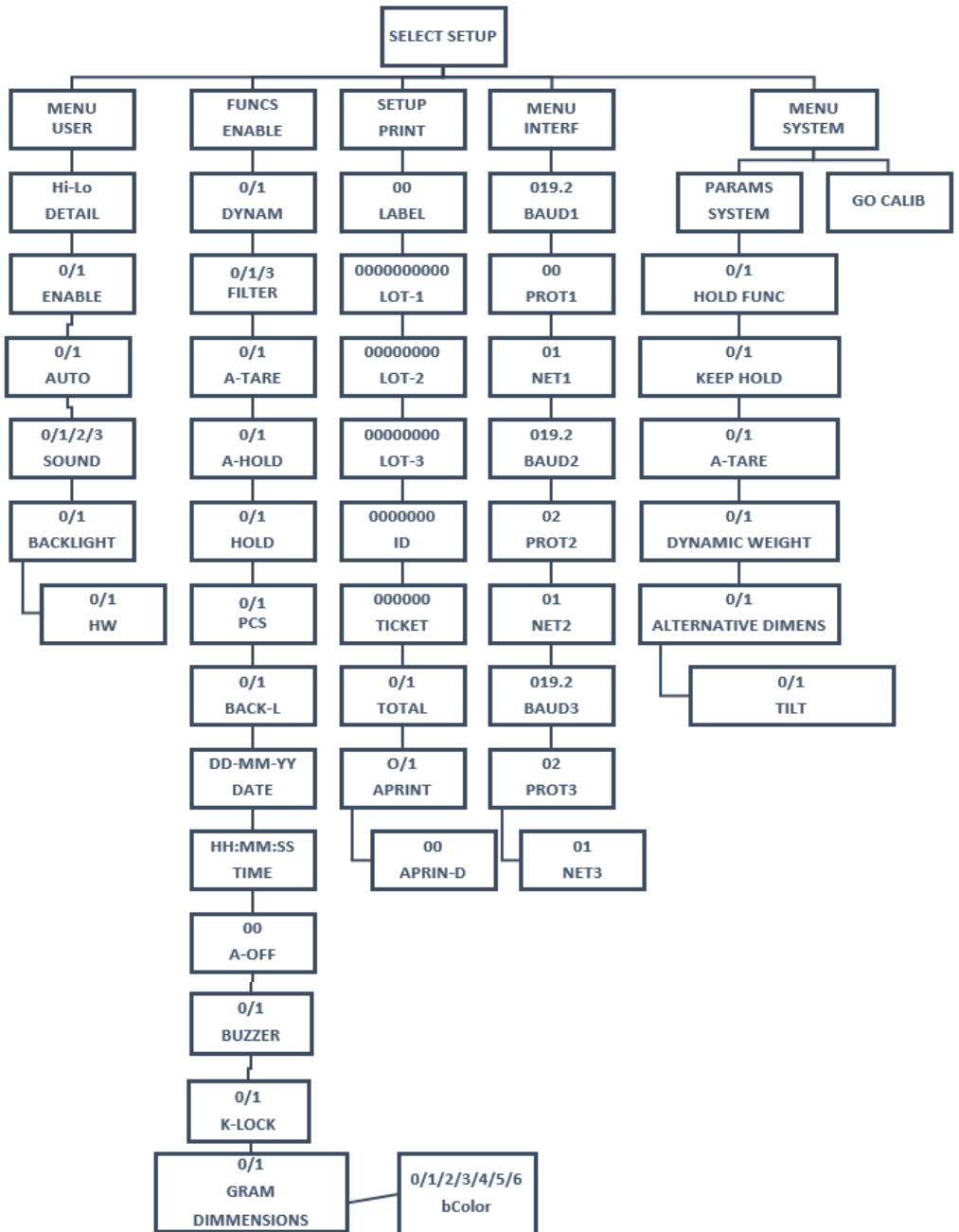
## 4.13 TILT SWITCH

The instrument can be equipped with an optional external tilt switch.

When the instrument is out of the Tilt limits the switch will be active and weighing will be terminated by the following messages:

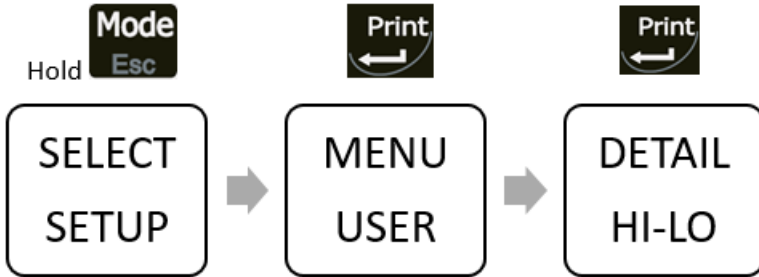
TILTED SCALE	Tilt Switch is ON
TILT SENSOR	Problem with Tilt Sensor
TILT SETUP	Tilt sensor not found or problem in calibration data

# 5. SETUP MENU DIAGRAM



# 6. CHECKWEIGHING SETUP

Access advanced checkweighing setup



## 6.1 CHECKWEIGHING FUNCTION ACTIVATION

- 0- disabled
- 1- activated

To change press

Press to go to next parameter

0  
ENAB

## 6.2 REMEMBER CHECKWEIGHING VALUES AFTER RESTART

- 0- disabled
- 1- activated

To change press

Press to go to next parameter

1  
AUTO

## 6.3 SOUND ALARM

- 0- Disabled
- 1- Sound alarm when OK
- 2- Sound alarm when LO
- 3- Sound alarm when HI

To change press

Press to go to next parameter

0  
SOUND

#### 6.4 BACKLIGHT COLOR CHANGE

- 0- Disabled
- 1- Enabled



To change press

When backlight color change is Enabled the backlight will change colors as follow:

LO (under) – Yellow

OK (within – Green

Hi (over) - Red

#### 6.5 CONTROL OF EXTERNAL DEVICES

(RESERVED TO FUTURE VERSION)

- 0- RESERVED



To change press



Press to go to next parameter




To exit menu hold until indicator is in weighing mode

0  
BACK-L

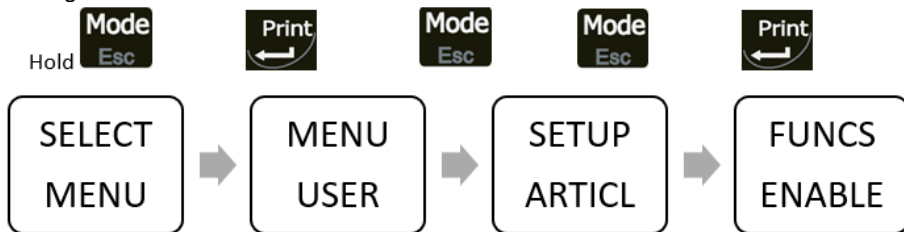
0  
HW



## 7 WEIGHING FUNCTIONS (FUNC ENABLE)


For quick access to Weighing Functions Menu press  followed by 


Or from general menu as shown:



### 7.1 DYNAMIC WEIGHING


- 1- disabled
- 2- activated


To change press 

Press  to go to next parameter

### 7.2 WEIGHING FILTER


- 0- Off
- 1- Medium
- 2- High


To change press 

Press  to go to next parameter

### 7.3 AUTOMATIC TARE

- 1- Disabled
- 2- Active

To change press 

Press  to go to next parameter

0  
DYNAM

0  
FILTER

0  
A-TARE

#### 7.4 AUTO HOLD

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

#### 7.5 HOLD

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

#### 7.6 COUNTING MODE

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

#### 7.7 BACKLIGHT

- 0- Off
- 1- On



To change press



Press to go to next parameter

#### 7.8 DATE

Format: DD-MM-YY

Use arrows to input the date



Press to go to next parameter

0  
A-HOLD

0  
HOLD

0  
PCS

0  
BACK-L


00-00-00  
DATE

### 7.9 TIME

Format: HH:MM:SS

Use arrows to input



Press  to go to next parameter


### 7.10 AUTO TURN OFF

00 - Off

01 to 60 in minutes

Use arrows to input



Press  to go to next parameter

### 7.11 BUZZER


0- Off

1- On



To change press



Press  to go to next parameter

### 7.12 KEYBOARD LOCK

0- Off

1- On



To change press



Press  to go to next parameter

### 7.13 ALTERNATIVE UNIT CHANGE


0- Off

1- On



To change press



Press  to go to next parameter

To exit menu hold  until indicator is in weighing mode

00:00:00  
TIME

00  
A-OFF

1  
BUZZER

0  
K-LOCK

0  
GRAM/DIMENS

### 7.14 BACKLIGHT COLOR

- 0 White
- 1 Green
- 2 Red
- 3 Yellow
- 4 Blue
- 5 Light blue
- 6 Purple



To change press



Press to go to next parameter



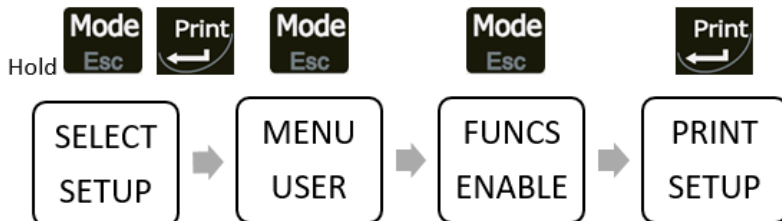
To exit menu hold

0  
BCOLOR

## 8 PRINT SETUP

Setup menu for Printing and Accumulation

Access from general menu as shown:



### 8.1 LABEL

Choose label # form to print

Possible label form editable by label editor:

- 01 – Default
- 02 – Optional
- 03 – Optional
- 04 – Optional



To change press



Press to go to next parameter

01  
LABEL

0  
LOT-2


### 8.2 LOT-1

Used in labeling mode

Enter up to 15 numbers

Use arrows to input



Press  to go to next parameter


### 8.3 LOT-2

Used in labeling mode

Enter up to 15 numbers

Use arrows to input



Press  to go to next parameter


### 8.4 LOT-3

Used in labeling mode

Enter up to 15 numbers

Use arrows to input



Press  to go to next parameter


### 8.5 ID

Used in labeling mode to set scale ID

Enter up to 15 numbers

Use arrows to input



Press  to go to next parameter


### 8.6 TICKET

Start number of ticket counter

Enter up to 6 digit number

Use numerical keyboard to input



Press  to go to next parameter

0  
LOT-1

0  
LOT-2

0  
LOT-3

0  
ID

000000  
TICKET

### 8.7 TOTALIZATION

Activated accumulation of weighings

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

### 8.8 AUTO PRINT

Automatic print when weight is stable

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

### 8.9 AUTO PRINT DELAY

Not sure!!!!

- 1 Disabled
- 2- Active



To change press



Press to go to next parameter



To exit menu hold until indicator is in weighing mode

0  
TOTAL

0  
APRINT

00  
APRN-D

# 9 LABEL FORMS

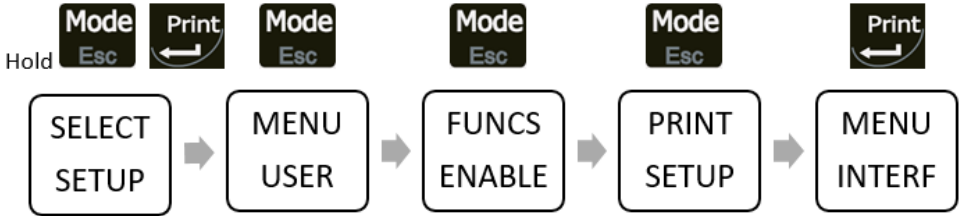
By Default there are 3 label forms to choose.

Label 01	Label 02	Label 03
<p>---label=01</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000174</p> <p>01-01-2000           14:32</p> <p>-----</p> <p>Gross:            1.138 kg</p> <p>Tare :            0.138 kg</p> <p>Net :             1.000 kg</p> <p>-----</p>	<p>---label=02</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000175</p> <p>01-01-2000           14:32</p> <p>-----</p> <p>Gross:            1.138 kg</p> <p>Net :             1.000 kg</p> <p>-----</p>	<p>---label=03</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000176</p> <p>01-01-2000           14:32</p> <p>-----</p> <p>Net :             1.000 kg</p> <p>-----</p>
<b>Basic Weighing</b>		
<p>---label=01</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000162</p> <p>01-01-2000           14:19</p> <p>-----</p> <p>GGross:           2.204 kg</p> <p>Tare :            0.204 kg</p> <p>Net :             2.000 kg</p> <p>Reference weight:</p> <p>  1.000kg/ 100pcs</p> <p>Quantity:           200 pcs</p> <p>-----</p>	<p>---label=02</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000163</p> <p>01-01-2000           14:19</p> <p>-----</p> <p>Gross:            2.204 kg</p> <p>Net :             2.000 kg</p> <p>Reference weight:</p> <p>  1.000kg/ 100pcs</p> <p>Quantity:           200 pcs</p> <p>-----</p>	<p>---label=03</p> <p>-----</p> <p>LOT-1:           223</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000164</p> <p>01-01-2000           14:19</p> <p>-----</p> <p>Net :             2.000 kg</p> <p>Reference weight:</p> <p>  1.000kg/ 100pcs</p> <p>Quantity:           200 pcs</p> <p>-----</p>
<b>Piece Counting</b>		
<p>---label=01</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000168</p> <p>01-01-2000           14:31</p> <p>-----</p> <p>Dyn Gross:        1.138</p> <p>Tare :            0.138 kg</p> <p>Dyn Net :         1.000 kg</p> <p>-----</p> <p>DYNAMIC WEIGHT</p> <p>-----</p>	<p>---label=02</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000169</p> <p>01-01-2000           14:31</p> <p>-----</p> <p>Dyn Gross:        1.138</p> <p>Dyn Net :         1.000 kg</p> <p>-----</p> <p>DYNAMIC WEIGHT</p> <p>-----</p>	<p>---label=03</p> <p>-----</p> <p>LOT-1:           00000123</p> <p>LOT-2:           24512345</p> <p>LOT-3:           00034456</p> <p>-----</p> <p>Weighing N:       #00000170</p> <p>01-01-2000           14:31</p> <p>-----</p> <p>Dyn Net :         1.000 kg</p> <p>-----</p> <p>DYNAMIC WEIGHT</p> <p>-----</p>
<b>Dynamic Weighing</b>		

**NOTE:** Other forms may be optionally loaded by Label Editor software

# 10 INTERFACE SETUP

Setup menu for setting up interfaces  
Access from general menu as shown:



## 10.1 COM1 SPEED

Enter COM1 speed:


004.8 – 4800bps

009.6 – 9600bps

019.2 - 19200bps (used for PC software)

Use arrows to input



Press  to go to next parameter

## 10.2 COM1 PROTOCOL

Select protocol

00- PC software SiComm

01- Label editor connection

02- Printer connection


03- Reserved

04- Reserved

05- Reserved

Use arrows to input



Press  to go to next parameter

## 10.3 COM1 SUBPROTOCOL

Used for protocol variations

00- Reserved

01- Reserved


02- Reserved

03- Reserved

04- Reserved

Use arrows to input



Press  to go to next parameter

019.2

BAUD1

00

PROT-1

0

NET-1



#### 10.4 COM2 SPEED

Enter COM1 speed:


004.8 – 4800bps

009.6 – 9600bps

019.2 - 19200bps (used for PC software)

Use arrows to input



Press  to go to next parameter

#### 10.5 COM2 PROTOCOL

Select protocol

00- PC software SiComm

01- Label editor connection

02- Printer connection


03- Reserved

04- Reserved

05- Reserved

Use arrows to input



Press  to go to next parameter

#### 10.6 COM2 SUBPROTOCOL

Used for protocol variations

00- Reserved

01- Reserved


02- Reserved

03- Reserved

04- Reserved

Use arrows to input



Press  to go to next parameter

#### 10.7 COM3 SPEED

*(Reserved for internal devices)*

Enter COM3 speed:


004.8 – 4800bps

009.6 – 9600bps

019.2 - 19200bps

Use arrows to input



Press  to go to next parameter

**019.2  
BAUD2**

**00  
PROT2**

**00  
NET-2**

**019.2  
BAUND3**


## 10.8 COM3 PROTOCOL

Select protocol

- 00- PC software SiComm
- 01- Label editor connection
- 02- Printer connection
- 03- Reserved
- 04- Reserved

Use arrows to input



Press  to go to next parameter


## 10.9 COM3 SUBPROTOCOL

Used for protocol variations

- 00- Reserved
- 01- Reserved
- 02- Reserved
- 03- Reserved
- 04- Reserved

Use arrows to input



Press  to go to next parameter



To exit menu hold  until indicator is in weighing mode

**IMPORTANT:** To save interface setting you must go



over all parameters with  until the instrument makes a click signal and exits Interface Menu

00  
PROT-3

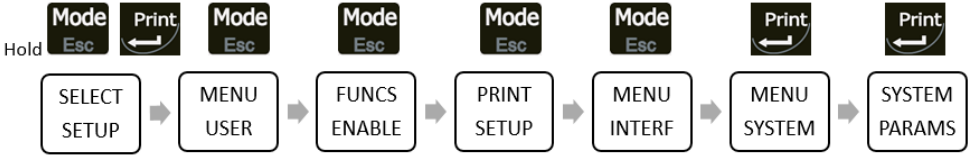
00  
NET-3

# 11 SYSTEM PARAMETERS

System parameters menu is jumper protected and it is used during initial scale setup.

From this menu you can enable/disable different functions

Access from general menu as shown:



## 11.1 FUNCTIONS HOLD AND AUTO HOLD

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

## 11.2 CLEAR HOLD/AUTO HOLD

- 0- Clears hold result after 8secs
- 1- Keep hold result until manually cleared with C key



To change press



Press to go to next parameter

**Note:** In legal for trade scales this parameter must be set to "0"

## 11.3 AUTO TARE

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

0  
HOLD FUNCS

0  
KEEP HOLD

0  
A-TARE FUNC

#### 11.4 DYNAMIC WEIGHING

- 0- Disabled
- 1- Active



To change press



Press to go to next parameter

#### 11.5 UNIT CHANGE

- Allows unit change
- 0- Disabled
  - 1- Active



To change press



Press to go to next parameter

#### 11.6 TILT SWITCH

The instrument can be equipped by internal or external TILT switch depending on application.

- 00- Disabled
- 01- Disabled
- 02- Disabled
- 03- Active internal tilt switch (if equipped)
- 04- Active external tilt switch active

Use numerical keyboard to input



Press to go to next parameter

If Tilt Switch is active the following menus appear

0  
DYNAMIC WEIGHT


0  
ALTERN DIMENS

0  
TILT TYPE


### 11.7 FLAT POSITION CALIBRATION

This parameter is used to calibrate the TILIT switch when scale in flat position (leveled).  
Top line is showing the current weight.  
Level the scale and place load.



To set the level calibration point hold   
Message GET POSIT will appear if calibration is made successfully




Press  to go to next parameter


### 11.8 TILT POSITION CALIBRATION

This parameter is used to calibration the TILIT switch when scale in tilted position (not leveled).  
Top line is showing the current weight.  
Set the scale to position where the on the TITL switch should be active scale and place load.



To set the level calibration point hold   
Message GET POSIT will appear if calibration is made successfully



Press  to go to next parameter



To exit menu hold  until indicator is in weighing mode

**0.000**  
**FLAT POSIT**

**0.000**  
**TILTED POSIT**



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