WEIGHING SCALE CARD MANUAL

S1 SMD 6 VOLTS 1230 ADC

(75.70mm X 86.40mm)

Key Features:

1. **Based on 20 Bit Delta Sigma Texas Instruments ADC1130 with maximum 1,50,000 counts.**
2. **ADC section protected with imported USA make solution for Moisture Protection.**
3. **Net/Gross function.**
4. **Piece counting, M+, Hold, Litre/Kg.**
5. **Three step Capacity with three step Accuracy.**
6. **Sleep mode function with Rotation Dot, Single Zero, Segment Dimming at idle time for Battery Saving.**
7. **Dummy zero activation.**
8. **Can use 0.56", 0.8", 1" and Dual Display.**
9. **Serial Display with 3 Wire support for long distance.**
10. **Calibration and function lock with customized password.**
11. **User friendly Firm name feeding and upto 4 starting set up styles.**
12. **Reverse battery, Keypad, ADC, Buzzer and all ports are Protected for long life and zero environment disturbance.**
13. **Battery Backup upto 65 Hours* guaranteed.**

Note: Master Password: 7777

- **FUNCTION OF CARD:**

TO KNOW IF MACHINE IS WORKING PROPERLY

Press Key1 and Key4 and Switch ON The Machine. Release Both Keys after 2 seconds, Card will enter into COUNT MODE, Put Weight on Platform and Counts will Increase. If There Is No Change, Check Loadcell Connections or Loadcell.

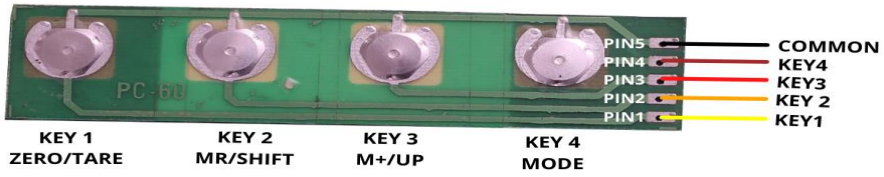
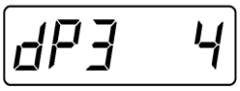
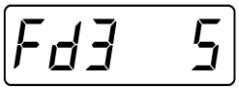
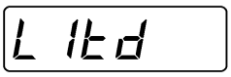
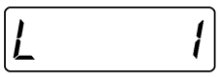


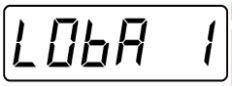
Figure 1 Keypad Connection Diagram.

- **SET PARAMETERS:** **LONG PRESS 'KEY2' AND SWITCH 'ON' THE MACHINE**

DISPLAY	All Parameter 'UP' By KEY3, 'SHIFT' By KEY2 And 'ENTER' by KEY1.	FUNCTION
EntEr	If Set Password Then Enter Password, else Press 'KEY1'	
nF 0	For Piece counting Set '0', For M+ set '1', For Litre set '2' and for Hold function set '3'. Press 'KEY1' To Enter.	MODE FUNCTION
d1SS 0	For Default without sleep set '0', For SINGLE ZERO after few seconds Set '1', For ROTATING DOT Point Set '2'. For DISPLAY DIMMING Set '3', Then , Press KEY1 To Enter.	SLEEP MODE
232 0	For changing the data strings on data transfer to computer/PC via 9 pin connector or USB Connector	COMPUTER DATA INTERFACE
ALC 1	Default set '1' in air lock mode. To disable, Put '0', Then, Press KEY1 To Enter.	AIR LOCKING
A-0 1	For zero tracking. Normally set 1. Range 0-9. Press KEY1 To Enter.	AUTO ZERO
du-0 0	Normal weighing – '0', if need Extra zero '1', Press KEY1 to enter. For Example, in '0' = 3.1 kg, '1' = 3.10 kg.	DUMMY ZERO
CAP-1	This is capacity one. Press KEY1 To Enter.	CAPACITY-1
10000	Set capacity one. Press KEY1 To Enter.	
dP1 4	This is for decimal point up to capacity one. For 0.000 = 4 and for 0.00 = 3. Press KEY1 To Enter.	DECIMAL POINT
Fd1 1	For accuracy up to capacity one. '1'=1kg, '2'=2kg, '5'=5kg and 10=10kg. Press KEY1 To Enter.	ACCURACY-1
CAP-2	This is capacity TWO. Press KEY1 To Enter.	CAPACITY-2
20000	Set capacity TWO. Press KEY1 To Enter.	
dP2 4	This is for decimal point up to capacity TWO. For 0.000 = 4 and for 0.00 = 3. Press KEY1 To Enter.	DECIMAL POINT
Fd2 2	For accuracy up to capacity TWO. 01=1kg, 02=2kg, 05=5kg and 10=10kg. Press KEY1 To Enter.	ACCURACY-2
CAP-3	This is final capacity after which sorry will show on screen. Press KEY1 To Enter.	CAPACITY-3

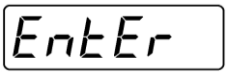
	**Set final capacity.** **Press KEY1 To Enter.**	
	**This is for decimal point up to final capacity. For 0.000 = 4 and for 0.00 = 3. Press KEY1 To Enter.**	**DECIMAL POINT**
	**For accuracy up to final capacity. 01=1kg, 02=2kg, 05=5kg and 10=10kg. Press KEY1 To Enter.**	**ACCURACY-3**
	**To open LITRE DENSITY Function---Go to HELP enter '7777', Make STYL = '2'. Then go to ENTER settings, Make nf = '2'. Press KEY1 To Enter.**	**LITRE DENSITY**
	**SET LITRE DENSITY HERE.** **Press KEY1 To Enter.**	
	**Default is '1', and to show dot on display make it '0'** **Press KEY1 To Enter.** **Press KEY4 to switch modes.**	**LITRE 'L' DISPLAY**

- **LOW BATTERY ENABLE/DISPLAY FUNCTION:**
  - **LONG PRESS KEY4 and Switch on the Machine, Display Will Show**

    
  - **'0' means disable and '1' to enable low battery display function.**
  - **"LOW BAT" will display when battery voltage is lowest. (IF LOW BATTERY IS '0', PARAMETERS MIGHT DISTURB) (TO INCREASE BATTERY LIFE, KEEP IT '1')**

- **PIECE COUNTING:**
  - **Put '0' in nF in Enter Parameter.**
  - **Switch on the machine and put some counted pieces on the machine, Press KEY4 and now machine is in Piece Counting Mode and display will show 'P.'**
  - **If pieces are not OK then press KEY3 and display will show 'COUnT', Now press KEY1, Display show 'P00000'. Here with the help of Key3 and Key4, Enter the number of pieces on Panel.**
  - **Finally Press key1 and Machine will show the no. of Pieces**
  - **To switch between WEIGHT & PIECE MODE, Use KEY4.**

- **CALIBRATION: -** Switch on Machine and Wait For '. 0.000'. Put the weight before entering calibration mode. To enter calibration mode, Press 'KEY3 and KEY4' together.

  Display will show 

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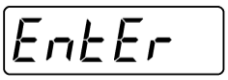
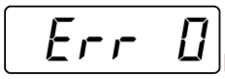
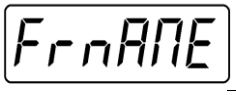
DISPLAY	All Parameter 'UP' By KEY3, 'SHIFT' By KEY2 And 'ENTER' by KEY1.
	After Stability Dot. Place the weigh on the Panel. Choose the weight such that it is approximately 1/3 of the total capacity of loadcell. Then Press Key1.
	If Set Password Then Type Password By KEY2 And KEY3 And Press KEY1 To Enter. Otherwise by pressing KEY1 display will be 05000.
	Type Load Weight by KEY2 And KEY3 And Press KEY1 To Enter.

Note- If display show 

, there is problem with loadcell wiring and card is not sensing the loadcell.

- **SET FIRM NAME:** LONG PRESS KEY3 and Switch on the Machine, Display Will Show 'HELP'.

DISPLAY	All Parameter 'UP' By KEY3, 'SHIFT' By KEY2 And 'ENTER' by KEY1.	
	Press KEY1 And Enter Master Password. (7777) Press KEY1 To Enter.	
	Press KEY1 To Enter.	
	If Want Password in Calibration and Parameter, Type password, Press KEY1 To Enter.	Password ENTER parameter
	Press KEY1 To Enter.	Firm Name – 1 part
	By pressing KEY2 and KEY3, Type Firm Name as per you need to show while Switching on the machine. Press KEY1 To Enter.	Enter Firm Name
	Press KEY1 To Enter.	Firm Name – 2nd part

	Feed second part of Firm Name. **Press KEY1 To Enter.**	**Enter Firm Name**
StYL 0	- **'0' '4' '5' '6' '7' '8' '9' Default mode,** - **Put '1' to display like** 666666**,** - **Put '2' to display like reverse counting (999999-888888-777777…)** 999999 **and LITER FUNCTION.** - **Put '3' to display like counting (111111-222222-333333…)** 111111**.**	**Startup Style display**

- **TRANSFER DATA ON COMPUTER VIA RS232:**

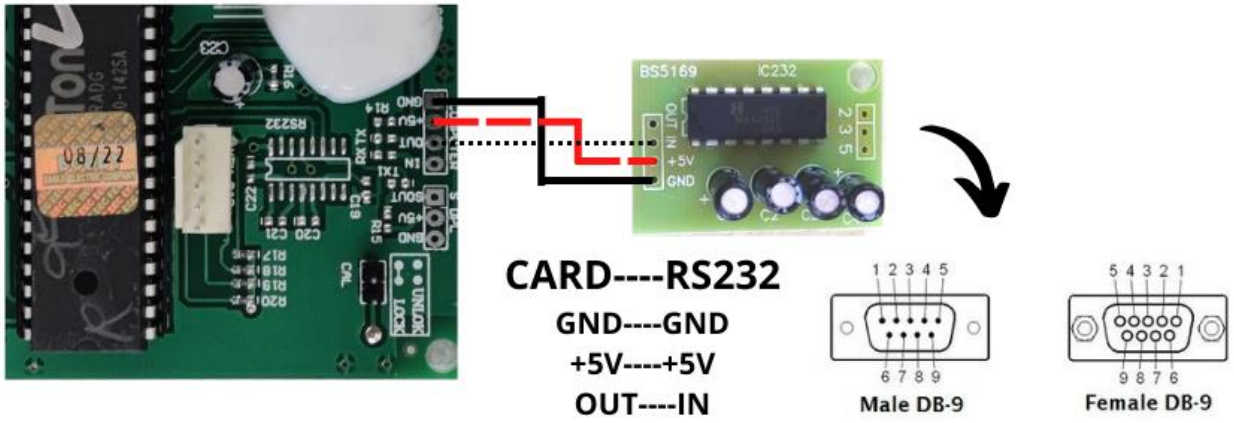


Figure 2 DATA TRANSFER CONNECTION VIA 9 PIN CONNECTOR

- **Connect wires from 2-3-5 of RS232 to 2-3-5 of MALE DB-9 as shown in Fig above.**
- **OR connect wires from 2-3-5 of RS232 to 2-3-5 of FEMALE DB-9 as shown in Fig above.**
- **Now Data is ready to transfer to computer.**

- **GND means Ground**
- **+5v means 5 Volts**
- **RX/IN means Receiver**
- **TX/OUT means Transmitter**

IF DATA NEED TO BE TRANSFER VIA USB, CONNECT RS232 PCB WITH CARD AND ATTACH USB CONVERTOR TO RS232 PCB VIA 2-3-5 PORT.

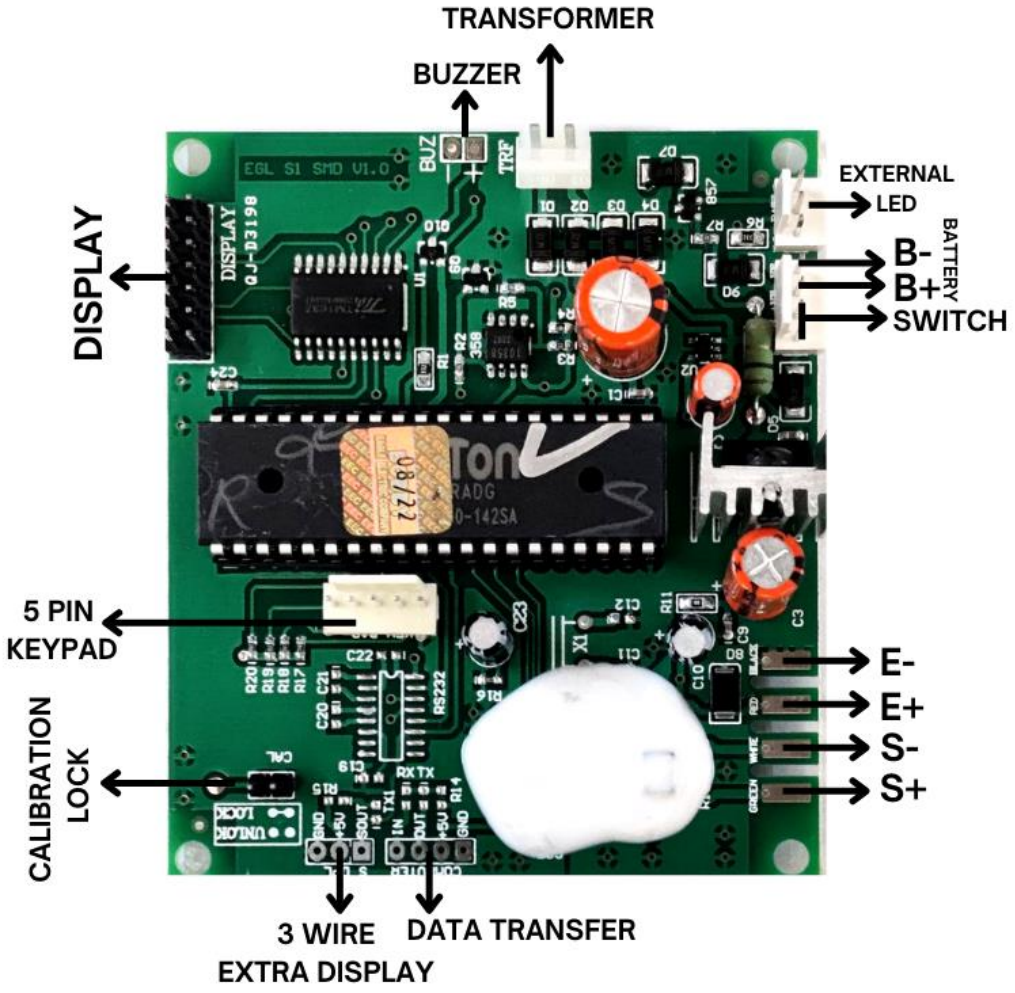


Figure 3 S1 SMD CONNECTION DIAGRAM

"NOTE"

PLEASE REMOVE PLASTIC BUBBLE PACKAGING BEFORE INSTALLATION AS IT MIGHT CREATE A STATIC CHARGE. CARD MIGHT SHOW RUNNING