

SUNSTAR

**Step Counter**

**SS0304**

**Features**

-5 digits LCD display

- (1) Step counter
- (2) Measuring distance (miles & Km)
- (3) Measuring calorie
- (4) Setting step-target

Version A: (1)

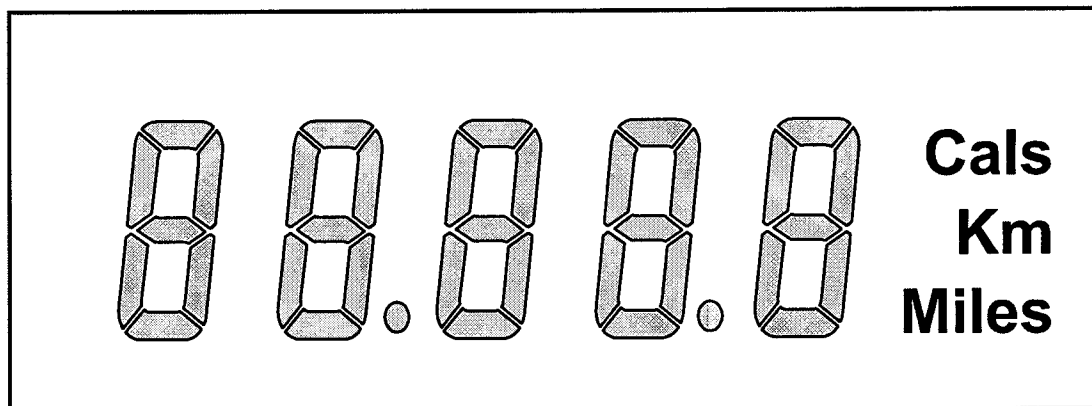
Version B: (1), (4)

Version C: (1), (2), (3)

Version D: (1), (2), (3), (4)

- Operating voltage: 1.5V

**L.C.D. Fully View**



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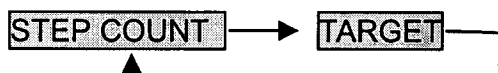
## Functions Description:

### Version A: (one key version)

- **RESET** key is used only
- Step counts from 0 to 99999
- Automatically start and reset to zero by pressing **RESET** key once.

### Version B: (2 keys version)

- **TARGET** & **RESET** keys are used
- Press **TARGET** key to change the modes:



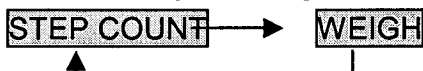
- At step count mode, press the **RESET** key to reset.
- At target mode, press **RESET** key to set the target.
- Range from 0 to 99999
- Setting sequence is following:  
100, 200, 300...900,1000,2000...9000...10000,20000...90000,90100,90200...90900,  
91000,92000...99000,99100,99200...99900,99910,99920...99990,99991,99992...99999
- After setting the target, wait for 5 seconds to confirm the new value.
- Beep sound when achieved the target.

### Version C: (3 keys version)

- **MODE** , **RESET** & **ADJUST** keys are used.
- Press **MODE** key to change the modes:



- Step counts from 0 to 99999
- Press **ADJUST** key to change the modes:



- Weigh range:30 to120 Kg @5 Kg
- Press **RESSET** key to reset the step counting.

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### Version D: (4 keys version)

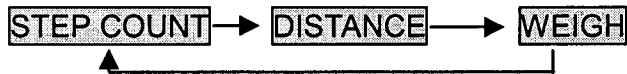
**MODE**, **ADJUST**, **TARGET**, & **RESET** key are used.

- Press **MODE** key to change the mode:

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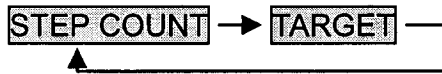
- Press **ADJUST** key to change the adjust modes:



(a) at distance mode, press **MODE** key to up

(b) At weigh mode, press **MODE** key to up

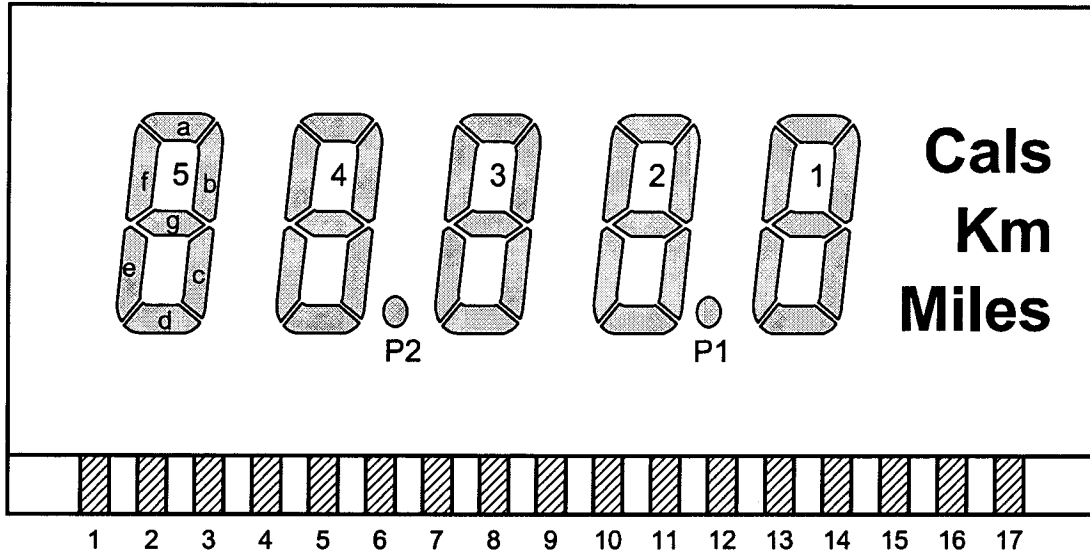
- Press **TARGET** key to change the mode:



- Press **ADJUST** key to set the target.
- Press **RESET** key to reset the step counts.

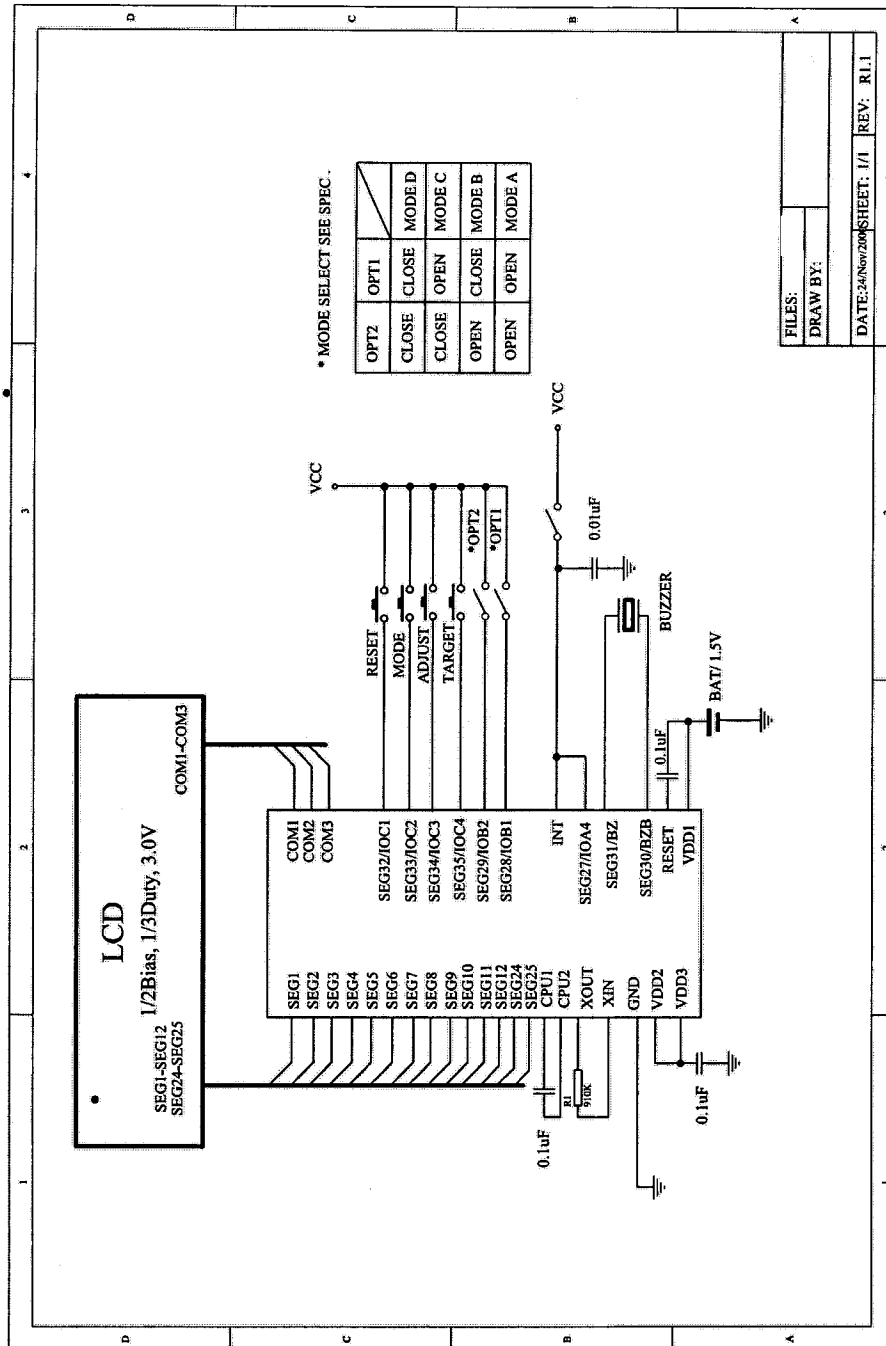
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## L.C.D. Outlook & Mapping Table

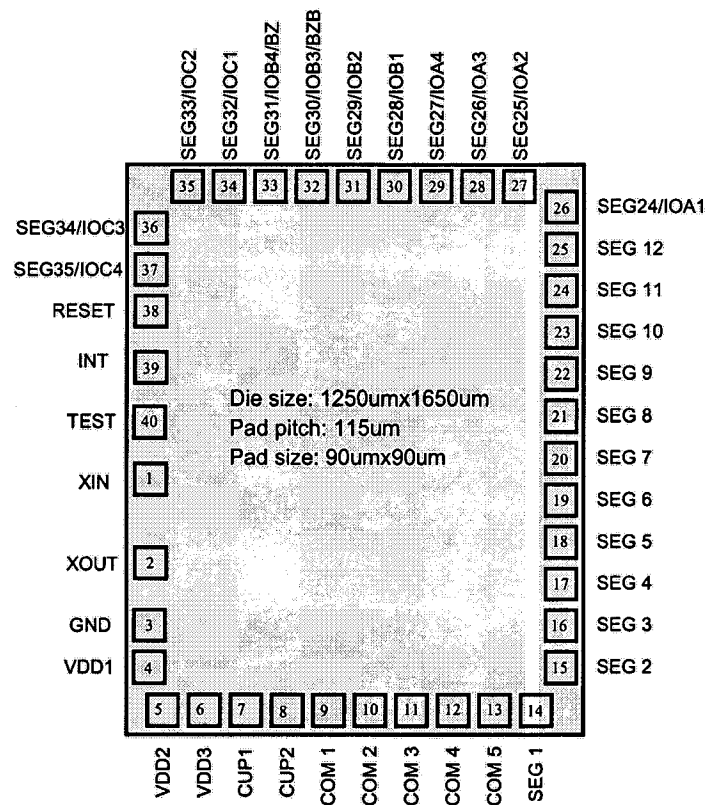


LCD Pin	1	2	3	4	5	6	7	8	
IC Pin	COM1	COM2	COM3	SEG1	SEG2	SEG3	SEG4	SEG5	
	COM1			5e	5d	4e	4d	3e	
		COM2		5f	5g	4f	4g	3f	
			COM3	5a	5b	4a	4b	3a	
LCD Pin	9	10	11	12	13	14	15	16	17
IC Pin	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12	SEG24	SEG25
	3d		2e	2d	1e	1d	P1	P2	Miles
	3g	3c	2f	2g	1f	1g	2c	4c	5c
	3b		2a	2b	1a	1b	1c	Cals	Km

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## PAD DIAGRAM



\*The chip substrate should be connected with the GND pin

FILES:	
DRAW BY:	
DATE:	SHEET:      REV:

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## I.C. Pads with X, Y coordinate:

No.	Name	X	Y	No.	Name	X	Y
1	XIN	72.50	712.85	21	SEG8	1176.85	919.50
2	XOUT	72.50	451.35	22	SEG9	1176.85	1041.50
3	GND	75.00	314.05	23	SEG10	1176.85	1163.50
4	VDD1	75.00	199.05	24	SEG11	1176.85	1285.50
5	VDD2	94.95	72.50	25	SEG12	1176.85	1407.50
6	VDD3	209.95	72.50	26	SEG24/IOA1	1176.85	1534.20
7	CUP1	324.95	72.50	27	SEG25/IOA2	1056.10	1571.30
8	CUP2	439.95	72.50	28	SEG26/IOA3	936.10	1571.30
9	COM1	554.95	72.50	29	SEG27/IOA4	816.10	1571.30
10	COM2	669.95	72.50	30	SEG28/IOB1	696.10	1571.30
11	COM3	784.95	72.50	31	SEG29/IOB2	576.10	1571.30
12	COM4	899.95	72.50	32	SEG30/IOB3/BZB	456.10	1571.30
13	COM5	1014.95	72.50	33	SEG31/IOB4/BZ	336.10	1571.30
14	SEG1	1129.95	72.50	34	SEG32/IOC1	216.10	1571.30
15	SEG2	1176.85	187.50	35	SEG33/IOC2	96.10	1571.30
16	SEG3	1176.85	309.50	36	SEG34/IOC3	72.50	1440.65
17	SEG4	1176.85	431.50	37	SEG35/IOC4	72.50	1325.65
18	SEG5	1176.85	553.50	38	RESET	72.50	1188.65
19	SEG6	1176.85	675.50	39	INT	72.50	1029.85
20	SEG7	1176.85	797.50	40	TEST	72.50	871.65

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