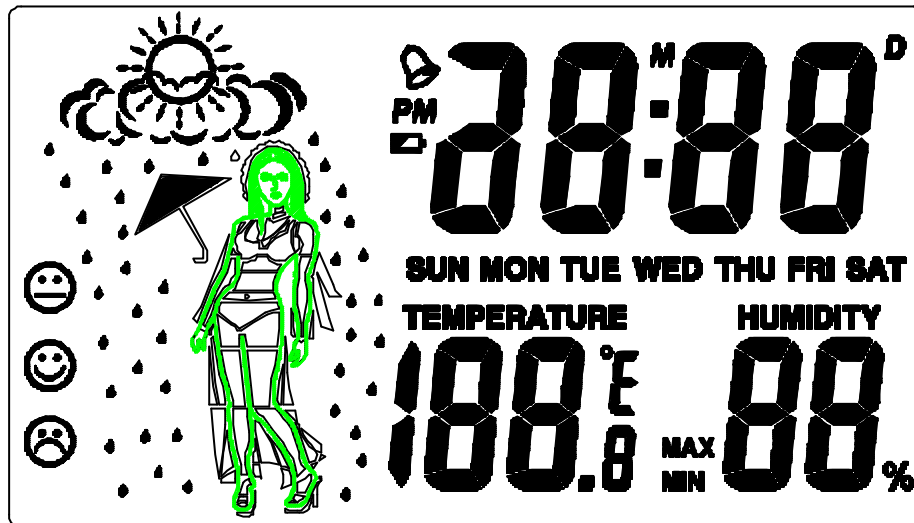


Human and Weather Forecast Clock



◆ Features:

- 3V Operating voltage
- Normal time display (HR: MIN)
- 12 hour format or 24 hour format selectable
- Calendar display (MON: DATE: WEEKDAY)
- Snooze alarm clock function
- Automatically test temperature and humidity. Display them in dynamic curve with in 12 hours transformation, switch in / , and display Max/Min memory of them.
- Environment indicator: Dryness, humidification and comfort.
- Weather forecast with 4 symbols: Sunny, Semi-sunny, Cloudy and Rainy
- LED back light
- Low battery indicator
- Snooze time: 3 times
- Snooze during:5 minutes
- The diversity of the human clothes according to the indoor temperature.
- An umbrella is needed when it is Rainy.



◆ Key definitions

This IC has 5 buttons: [MODE], [MIN/MAX], [+], [-],[SNOOZE/LIGHT]

[MODE]: Press and hold [MODE] button 3 seconds to enter setting mode.

In non-setting mode, press [MODE] button to have mode (Time mode, Date mode, Alarm mode) selected.

In setting mode, press [MODE] button to have the setting field selected.

[MIN/MAX]: In normal mode, press [MIN/MAX] button to view the intraday maximum and minimum value of the temperature and humidity.

[+]: In normal clock mode, press [+] button to turn on/turn off the alarm.

In normal clock mode, press and hold [+] button 3 seconds to have the 12 hour format or 24 hour format selected.

In setting status, press [+] button to advance the setting digits.

[-]: In normal clock mode, press [-] button to have or selected.

In setting status, press [-] button to decrease the setting digits.

[SNOOZE/LIGHT]: In normal clock mode, press [SNOOZE/LIGHT] button to turn on backlight for 8 seconds.

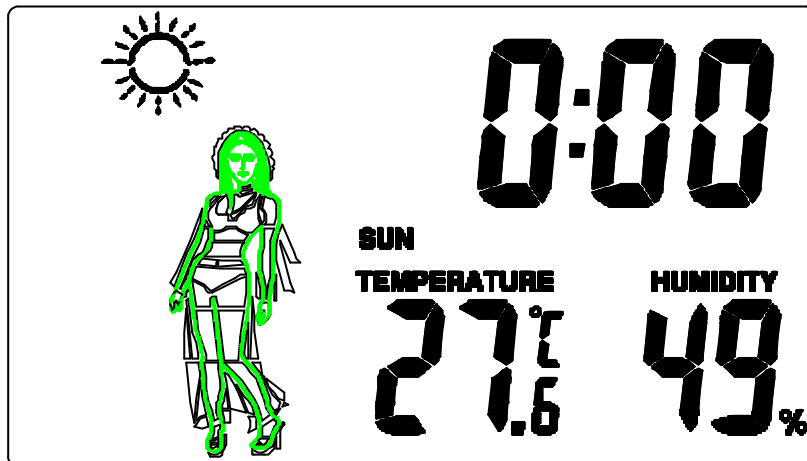
◆ MODE SELECTION:



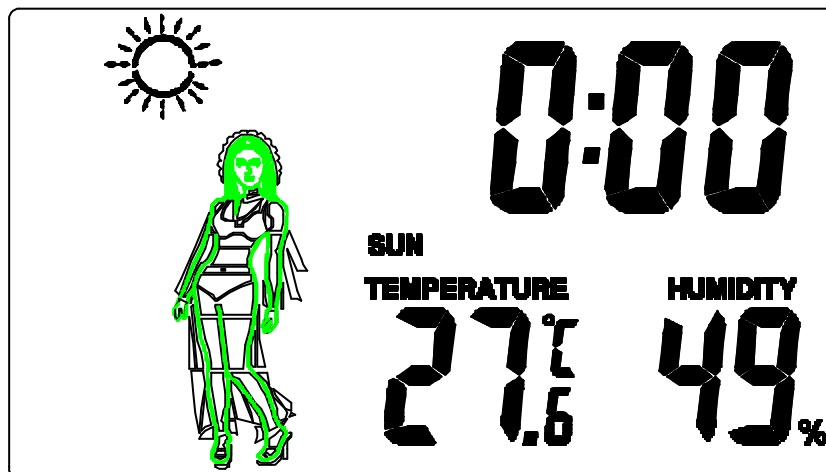


Operation instructions

At power up, the IC turns on all LCD 3 seconds buzzer alarm “BI-BI” for 1 second and then it enters normal clock mode. In this mode, LCD display as follows:



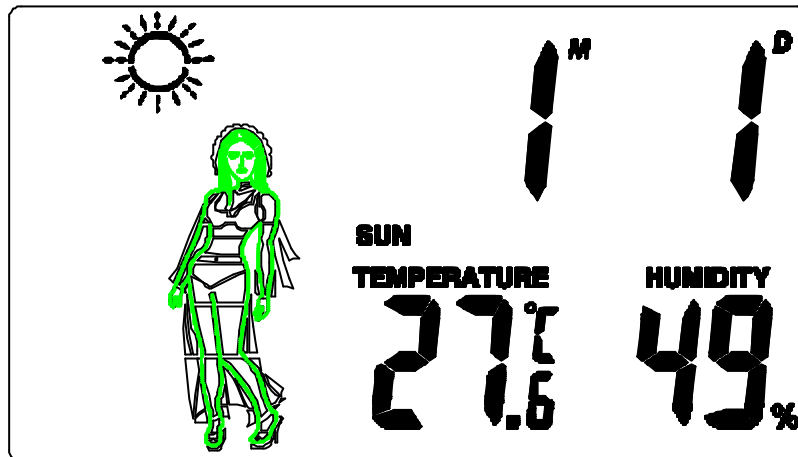
◆ Time mode



- In normal mode, press MODE button for 3 seconds to enter into time setting mode. At the same time, the hour digit will flash. Press [+] or [-] button to adjust the hour.
- Press MODE button again, the minute will flash. Press [+] or [-] button to adjust the minute.
- In setting mode, if no button is pressed in 8 seconds, the setting value will stop flashing, and then it returns to normal clock mode.

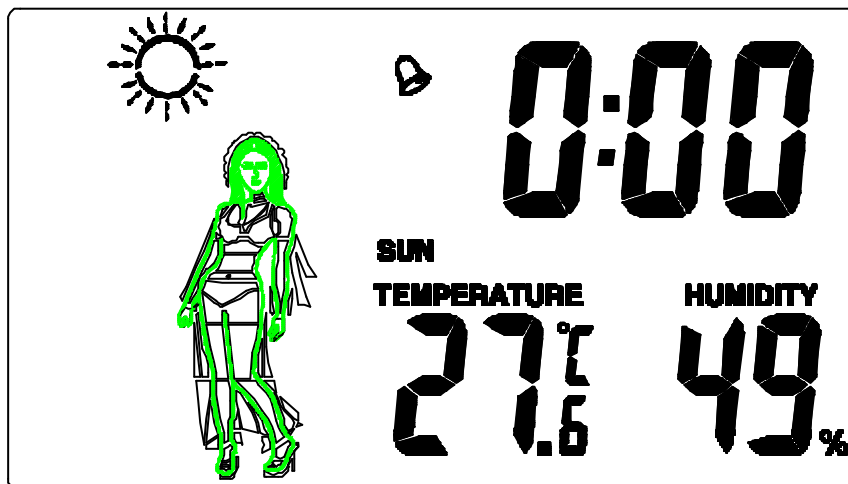


◆ Date mode



- In Date mode, press MODE button for 3 seconds to enter into time setting mode. At the same time, the month digit will flash. Press [+] or [-] button to adjust the month.
- Press MODE button again, the date will flash. Press [+] or [-] button to adjust the date.
- At the same time, the weekday will be calculated and displayed automatically.
- In setting mode, if no button is pressed in 8 seconds, the setting value will stop flashing, and then it returns to normal clock mode.

◆ Alarm mode



- In the alarm mode, press MODE button for 3 seconds to enter into time setting mode. At the same time, the alarm hour will flash. Press [+] or [-] button to adjust the alarm hour.
- Press MODE button again, the alarm minute will flash. Press [+] or [-] button to adjust the alarm minute.
- When it reaches the alarm time, it will buzzer “BI “,”BI BI”, “BI BI BI BI”, “BI BI BI” “BIBI.....BI” for 2 minutes. During the alarm time, you can press [MODE]



[MAX/MIN],[UP],[DOWN] button to stop the alarm.

- When it alarms, press [SNOOZE/LIGHT] button to enter snooze function, at the same time, the LED light will illuminate for 8 seconds, and the alarm icon will flash till the over of the snooze function. The snooze time is 3 times. And the snooze during is 5 minutes.
- In setting mode, if no button is pressed in 8 seconds, the setting value will stop flashing, and then it returns to normal clock mode. Notice :At this time, the alarm is in "OFF" state.

◆ Temperature and Humidity instructions:

The range of temperature:0 -50 (32 -122).Displaying the trend of temperature change in dynamic curve of past 12 hours.

The range of humidity:20%-90%.

Press [MAX/MIN] button to display the max/min temperature and humidity for 5 seconds.

◆ Environment indicator


Three Environment indicator: Dryness, Humidification, and comfort.


Dryness: Humidity less than 40%.

Humidification: Humidification more than 70%.

Comfort: Temperature is between 20-25 , and the humidity is between 40-70%.

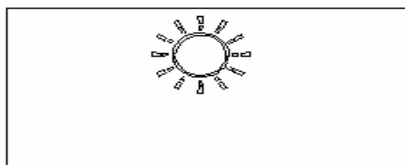
 represents "humidification".

 represents "dryness".

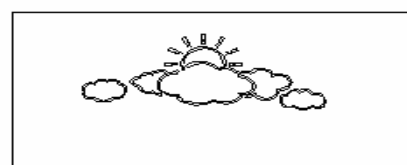
 represents "comfort".

Weather Forecast

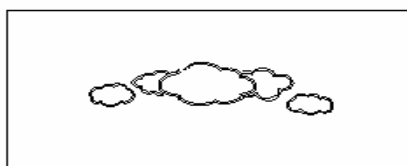
- The weather forecast is an approximate estimate of the weather for a region, 18 miles to 30 miles across, over the next 12 to 24 hours. The forecast is based on the changes of the humidity.
- The following symbols are used to indicate the forecast:



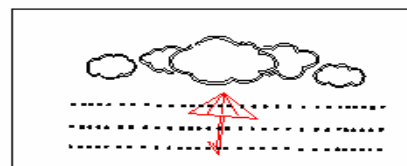
Sunny



Semi-Sunny



Cloudy



Rain



When the humidity < 45 %, it will display “Sunny”

When the 45% humidity < 50%, it will display “Semi-Sunny”

When the 50% humidity < 55%, it will display “Cloudy”

When the humidity ≥ 55%, it will display “Rain” An umbrella is needed when it is Rainy.

- The diversity of the human clothes according to the indoor temperature.



Back Light

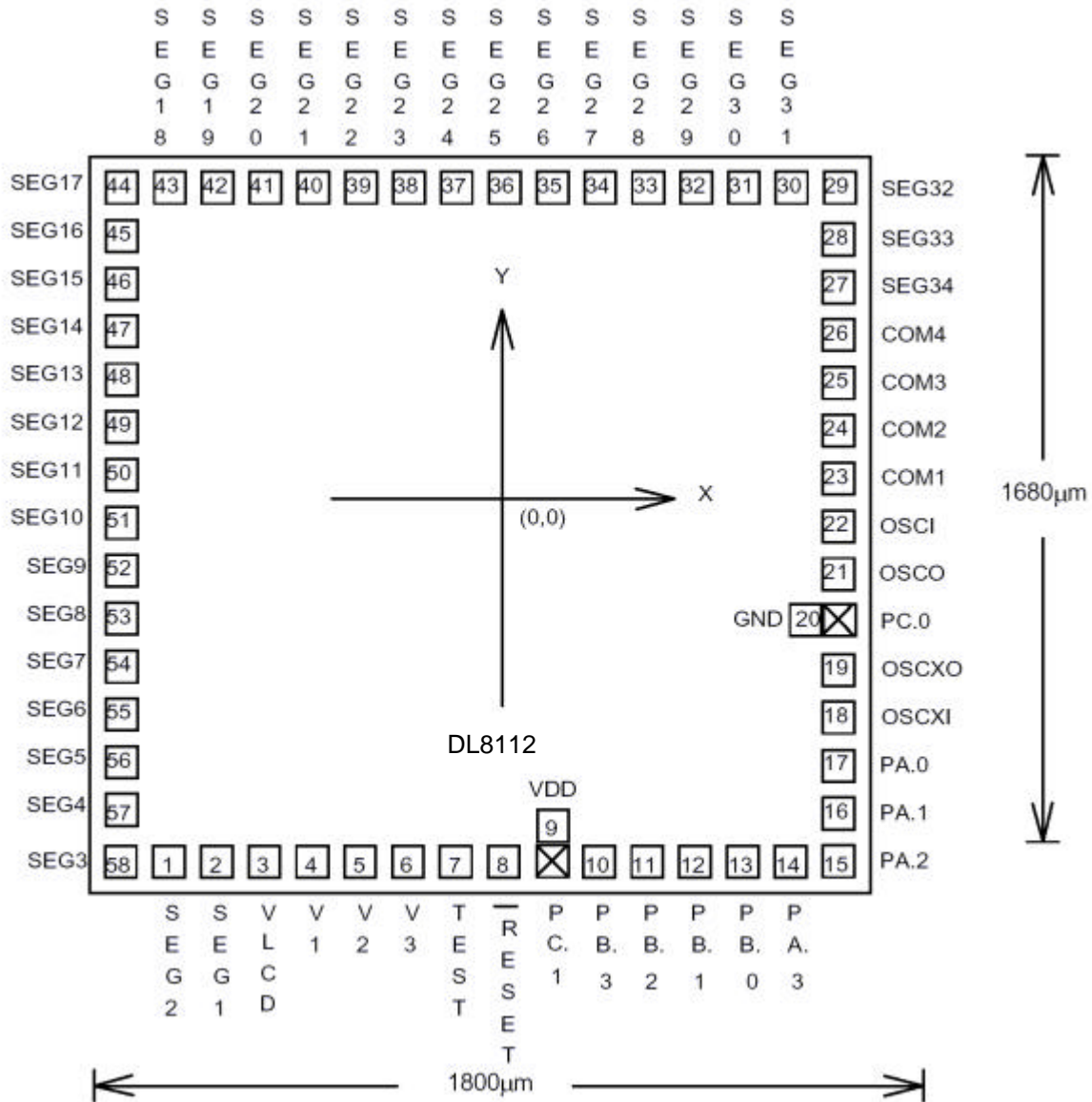
When you press the LIGHT/SNOOZE button, the display illuminates for 8 seconds, so that you can continue to read the display in the dark.

◆ Default value:

- Time: 2008,1,1 0:00;
- Default format: 24 hour format;
- Alarm time: 0:00;
- Alarm ON/OFF: OFF;



◆ IC pad chart:





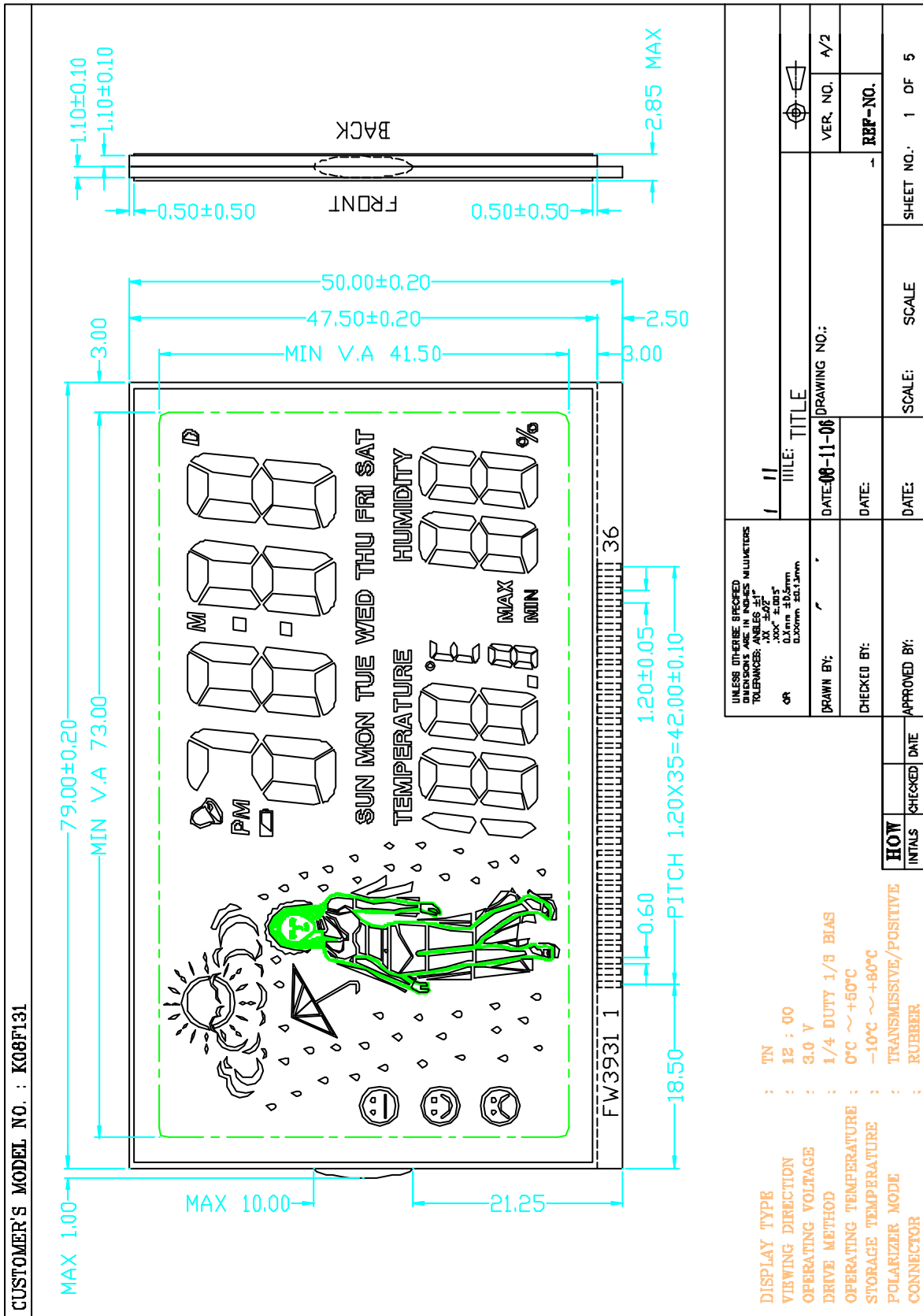
Unit: μm

Pad No.	Pad Name	Coordinate		Pad No.	Pad Name	Coordinate	
		X	Y			X	Y
1	SEG2	-770.00	-840.00	29	SEG32	900.00	840.00
2	SEG1	-640.00	-840.00	30	SEG31	770.00	840.00
3	VLCD	-520.00	-840.00	31	SEG30	640.00	840.00
4	V1	-405.00	-840.00	32	SEG29	520.00	840.00
5	V2	-290.00	-840.00	33	SEG28	405.00	840.00
6	V3	-175.00	-840.00	34	SEG27	290.00	840.00
7	NC	-60.00	-840.00	35	SEG26	175.00	840.00
8	RESET	55.00	-840.00	36	SEG25	60.00	840.00
9	VDD	180.00	-746.00	37	SEG24	-60.00	840.00
BO	PC1	175.95	-848.90	38	SEG23	-175.00	840.00
10	PB3	295.00	-840.00	39	SEG22	-290.00	840.00
11	PB2	410.00	-840.00	40	SEG21	-405.00	840.00
12	PB1	525.00	-840.00	41	SEG20	-520.00	840.00
13	PB0	640.00	-840.00	42	SEG19	-640.00	840.00
14	PA3	770.00	-840.00	43	SEG18	-770.00	840.00
15	PA2	900.00	-840.00	44	SEG17	-900.00	840.00
16	PA1	900.00	-710.00	45	SEG16	-900.00	710.00
17	PA0	900.05	-590.00	46	SEG15	-900.00	590.00
18	OSCXL	900.00	-470.00	47	SEG14	-900.00	470.00
19	OSCXL	900.00	-355.00	48	SEG13	-900.00	355.00
20	GND	806.05	-240.00	49	SEG12	-900.00	240.00
BO	PC0	907.60	-248.05	50	SEG11	-900.00	120.00
21	OSCO	900.00	-120.00	51	SEG10	-900.00	0.00
22	OSCI	900.00	0.00	52	SEG9	-900.00	-120.00
23	COM1	900.00	120.00	53	SEG8	-900.00	-240.00
24	COM2	900.00	240.00	54	SEG7	-900.00	-355.00
25	COM3	900.00	355.00	55	SEG6	-900.00	-470.00
26	COM4	900.00	470.00	56	SEG5	-900.00	-590.00
27	SEG34	900.00	590.00	57	SEG4	-900.00	-710.00
28	SEG33	900.00	710.00	58	SEG3	-900.00	-840.00

Note: The IC substrates to the ground.

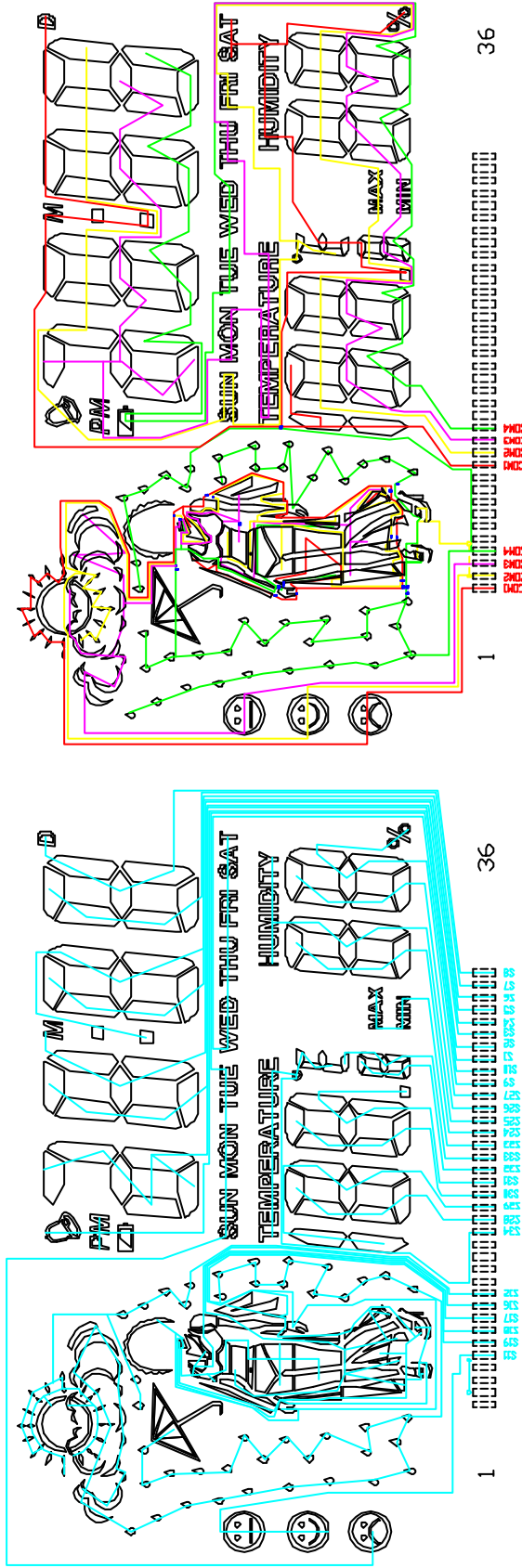


◆ LCD Drawings (1/4 Duty, 1/3 Bias , 3V)





CUSTOMER'S MODEL NO. :



SEG

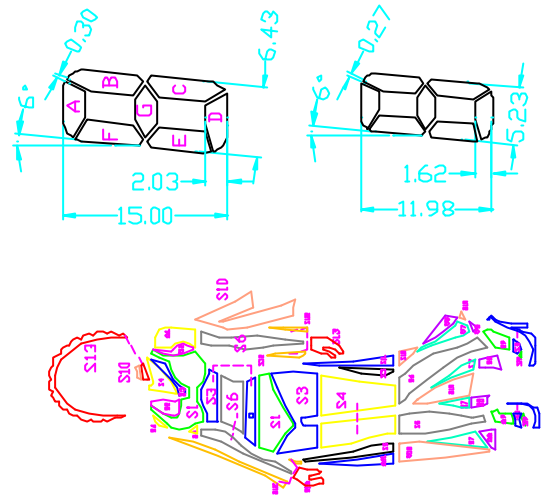
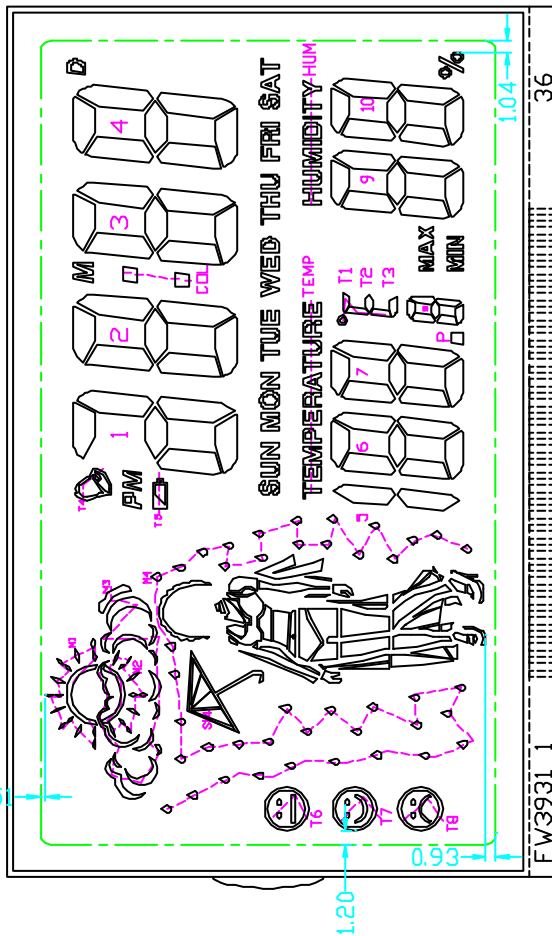
COM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES MILLIMETERS DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS TOLERANCES UNLESS NOTED Ø .005" ±.000" Ø .005" ±.000" Ø .005" ±.000" Ø .005" ±.000"		TITLE: TITLE		DRAWING NO.: A/2		VER. NO. A/2	
DRAWN BY:		DATE:		DATE:		REF-NO.	
CHECKED BY:		DATE:		DATE:		SCALE: 3 OF 5	
APPROVED BY:		DATE:		DATE:		SHEET NO.: 3 OF 5	
HOW		CHECKED		DATE			
INITIALS							

ABOUT 25 CROSS POINTS IN V.A



CUSTOMER'S MODEL NO. :



PIN 1	COM1	COM2	COM3	COM4	S11	S19	/	S12	S8	S4	M1	COM1	COM2	COM3	COM4	S34	S28	S29	S30	18
COM1	COM1	COM2	COM2	COM3	T7	/	S11	S3	S4	S4	M2	COM1	COM2	COM3	COM4	T2	6A	5BC	7A	7A
COM2	COM2	COM3	COM3	COM4	T6	/	S10	S2	S6	S6	M3	COM2	COM3	COM4	T1	6F	6B	6B	7F	7E
COM3	COM3	COM4	COM4	COM4	/	S13	S9	S1	S5	S5	M4, S14	COM3	COM4	COM4	TEMP	6E	6G	6G	7E	7E
PIN 19	S31	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38
COM1	P	8A	T3	/	9A	HUM	10A	/	SAT	T8	/	S2	2A	M	3A	COL	4A	4A	4A	4A
COM2	7B	8F	8B	MAX	9F	10F	10B	10F	10B	FRI	SUN	T4	1B	2F	2B	3B	4F	4B	4B	4B
COM3	7G	8E	8G	MIN	9E	10E	10G	10E	10G	THU	MON	PM	1AGDE	2E	2G	3E	4E	4E	4E	4G
COM4	7C	8D	8C	/	9D	10C	10C	10C	10C	WED	TUE	T5	1C	2D	2C	3D	3C	4D	4D	4C

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES MILLIMETERS
TOLERANCES ANGLES ±1°
XXX ±0.005"
OR
XXX ±0.100mm
DIMENSIONS ±0.13mm

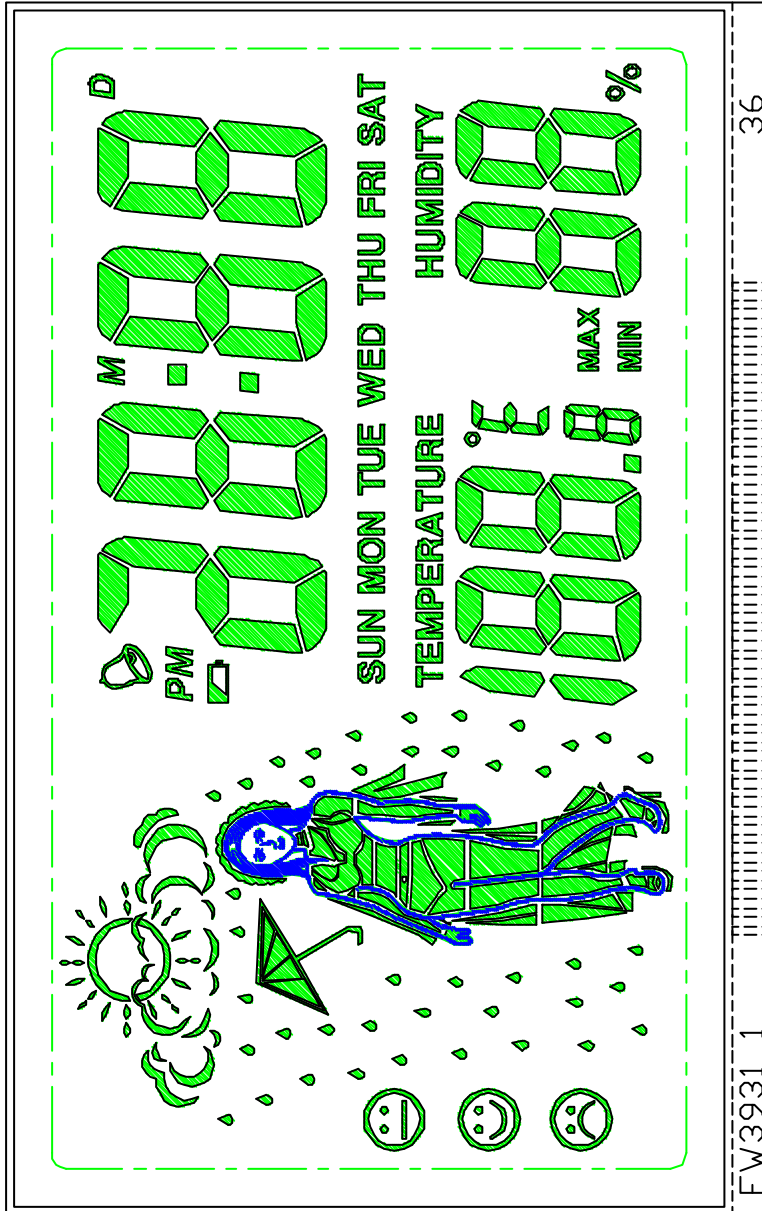
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VER. NO. A/2
REF-NO.

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CUSTOMER'S MODEL NO. :



FW3931 1

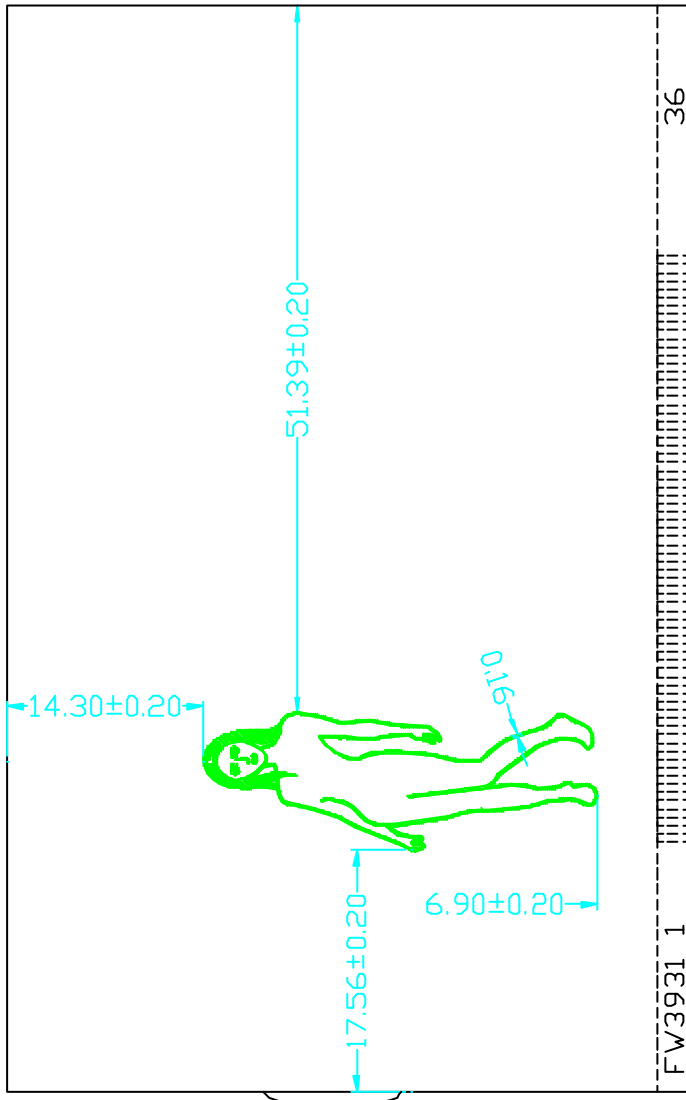
36

显示效果图

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES MILLIMETERS TOLERANCES: ANGLES ±1° XXX ±.02" OR XXX ±.006" XXX ±.03mm XXX ±.0125mm	TITLE: TITLE		VER. NO. A/2
	DRAWING NO		
DRAWN BY.	DATE:	DATE:	REP-NO.
CHECKED BY	DATE:	DATE:	
APPROVED BY	DATE:	SCALE	SHEET NO.: 5 OF 5
HOW INITIALS	CHECKED	DATE	



CUSTOMER'S MODEL NO. :



底玻璃表面黑色丝印

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES MILLIMETERS TOLERANCES ANGLES ±1° XXX ±.004" XXXX ±.005" O.XXXXX ±.01mm	TITLE: TITLE		VER. NO. A/2	REF-NO.
	DRAWING NO. DATE: 08-11-06			
DRAWN BY:	CHECKED BY:	DATE:	SCALE	SHEET NO. 4 OF 5
APPROVED BY:	DATE:	SCALE		
HOW INITIALS	CHECKED DATE	DATE		