**LCD Display**

  

1. **Main functions：**
	1. Five function keys : 【SET/RCC】、【UP/12-24】、【DOWN/CF】、【ALM ON/OFF】、【SN/LIGHT】

【RESET】 button near the back battery box

* 1. seconds , minutes, hours, date ,week, month ;
	2. toggle alarm time and month-day display
	3. Indoor Ambient Temperature: -10.0℃～50℃ [14℉～122℉]
	4. Environment Humidity:19%-99%
	5. Automatic Clock Reception (DCF/MSF/WWVB).
	6. Alarm and snooze function, 5 minutes delay alarm
	7. LED backlight, delay 10 seconds
1. **Power & Reset**
	1. On Power or Reset, LCD full display 3 seconds, at the same time backlight lit 3 seconds → buzzer make a “BI”sound , → select the national area →Normal state→ check temperature and humidity → Enter the RCC signal reception .

**[Power On this product requires the user to first select Set Country region: DCF= European EU; MSF = English UK; WWVB= United States US, or go to setup mode to select Country area, when no signal is received in the area, automatically loops in three zones . signal will base on the last time you received ]**

**[Select the interface in the national area, press [SN/LIGHT] button to switch selection, confirm by press any other key, if not, then the default is DCF European EU].**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 　 | Display time | Month / Day | Date | Week default language | Temperature unit | RCC | Jet Lag | Alarm Time |
| DCF= EU  | 00:00:00 (24hr) | D/M | 2018 -1-1, | German | ℃ | ON | 0 | 7:00am |
| MSF= UK  | 12:00am (12hr) | D/M | 2018 -1-1, | English | ℃ | ON | 0 | 7:00am |
| WWVB = US  | 12:00am (12hr) | M/D | 2018 -1-1, | English | ℉ | ON, DST ON | E | 7:00am |

* 1. Power on default perpetual calendar display:
1. **operation and display:**
	1. Key functions : 【SET/RCC】、【UP/12-24】、【DOWN/CF】、【ALM ON/OFF】、【SN/LIGHT】

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| --- | --- | --- | --- | --- | --- | --- |
|   |   | 【SET/RCC】 | 【ALM ON/OFF】 | 【UP/12-24】 | 【DOWN/CF】 | 【SN/LIGHT】 |
| Standard mode | Single Press | Start / exit receive RCC | Turn on and display the alarm clock / display Month Day | 12/24 Hour Switch | Temperature unit ℃/℉ switch | Light LED 10 seconds |
| Long Press | Enter Time setting | Enter Alarm setting | ------ | ------ | ------ |
| Clock setting | Single Press | confirm settings | ------ | Single Step increase | Single Step Descending | Light LED 10 seconds |
| Long Press | ------ | ------ | 8 Steps / second increase | 8 Steps / second decrement | ------ |
| Alarm setting | Single Press | ------ | confirm settings | Single Step increase | Single Step Descending | Light LED 10 seconds |
| Long Press | ------ | ------ | 8 Steps / second increase | 8 Steps / second decrement | ------ |

* 1. Key **operation**:
* Single press【SET/RCC】key ( no key tone ), start RCC receive, and then press exit RCC receive
* Long Press 【SET/RCC】key, buzzer BI sound , enter time setting
* Single press【ALM ON/OFF】key, **buzzer BI sound** , Turn on the alarm and switch to the alarm clock time display; Press this key again( no key tone ) turn off the alarm and switch to month-day display
* Single press【SN/LIGHT】key , backlight lighting ten seconds
* When the alarm clock is ringing, press any key to stop the noise, press 【SN/LIGHT】 button , Enter the snooze state, will delay 5 minutes Alarm
	1. Time setting:
* Long Press【SET/RCC】key, buzzer BI sound, enter time setting
* the Setting order is:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Setting Order | CY | ZONE | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| DCF = EU  | Country → | Time zone → | Years → | DM/MD → | Month → | Day → | Language → | 12/24h → | Hours → | Min → | Exit | 　 |
| MSF = UK  | Country → | Time zone → | Years → | DM/MD → | Month → | Day → | Language → | 12/24h → | Hours → | Minutes → | Exit | 　 |
| WWVB = US  | Country → | Time zone → | Years → | DM/MD → | Month → | Day → | Language → | 12/24h → | Hours → | Minutes → | DST On/off → | Exit |

* set range for year to 2000~ 2099 , the week changes with the day of the year, and the seconds to zero when you set the Minutes
* when set, the item being set will blink with the 1HZ frequency
* Press the【SET/RCC】key to determine the setting result and move to the next setup item
* Press【UP/12-24】button , Set the item forward one step, and hold down 2 seconds to advance at the 8 steps per second
* Press【DOWN/CF】button, set the item back one step, and hold down 2 seconds to rewind at the 8 steps per second
* no setting in 20 seconds will save settings and exit
* Partial Details:
* In USA ,WWVB has DST settings selection, DST setting to ON, successfully receiving WWVB signal, display DST ICON, US time plus 1 hours, DST set to Off , successfully receive WWVB signal, do not display ICON for DST , don’t add 1 hour.
* EU DCF version and UK version of MSF , if a DST signal is received, ICON showing DST
* Time zone offset, European DCF version and UK version of MSF , time setting mode has +-12 hour adjustment, adjust rear time display offset
* time zone description :

|  |  |
| --- | --- |
| DCF version EU Time Zone:  | +-12H |
| MSF version UK Time Zone: | +-12H |
| WWVB U.S. version US time zone [ has 7 ] : |   |
| 　 | Atlantic–at (GMT-4)  |
| 　 | Eastern–e (GMT-5) |
| 　 | Central–c (GMT-6)  |
| 　 | Mountain–m (GMT-7) |
| 　 | Pacific–p (GMT-8) |
| 　 | Alaskan–ak (GMT-9) |
| 　 | Hawaii –h (GMT-10) |

* Language corresponds to five languages:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Language | Hereinafter | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| English | EN | MO | TU | WE | TH | FR | SA | SU |
| French | FR | LU | MA | ME | JE | VE | SA | DI |
| German | GE | MO | DI | MI | Do | FR | SA | So |
| Italian | IT | LU | MA | ME | GI | VE | SA | Do |
| Spanish | SP | LU | MA | MI | JU | VI | SA | Do |

* 1. Alarm Settings:
* standard mode, single press 【ALM ON/OFF】 key open the alarm clock, display the alarm time,
* Alarm Clock display mode, and then press 【ALM ON/OFF】Close Alarm Clock , show month and date
* Long Press【ALM ON/OFF】Key entry Alarm Clock Setup mode
* set in order: Hours 🡪 minutes 🡪 Exit
* when setting, the item being set will blink with the 1HZ frequency
* Press 【ALM ON/OFF】The key determine the setting result and goes to the next setup item
* Single Press 【UP/12-24】 key, Set the item forward one step, and long press this key ,to rewind at the 8 steps per second
* Single Press 【DOWN/CF】 key, set the item back one step, long press this key does not put, will be at 8 steps per second speed back
* The alarm setting is completed , the setting clock open and display .
* no settings within 20 seconds will save settings and exit
1. **Functions and effects description**
	1. RCC function .
* Enter RCC receive condition:
	1. power on or reset into RCC receive
	2. Press the【SET/RCC】key to force access to RCC receive
	3. When receiving , press the【SET/RCC】key to stop RCC receive
	4. When receiving , only 【SN/LIGHT】 key can work, to operate other keys, you need to exit RCC receive status
	5. RCC receive ,a travel clock version description, the RCC signal is received according to the country area set by the user, will be in DCF→MSF→ WWVB switch sequentially between the three. For example: The last time you received a successful WWVB format, the next time you turn on RCC reception takes precedence over WWVB 's RCC radio format
* RCC received 4-10 minutes
* RCC Receive graphics:
1. signs flashing When receiving

 b) when receive successful, the RCC receive symbol will be full displayed ;

c)When the signal is received unsuccessfully the symbol disappeared and exit the RCC.

* any not set mode, press "SET/RCC" key, enter RCC manual Receive mode , no functions press any other keys during receive process,, and single press "SET/RCC" Key to stop RCC receive
* on a daily basis 1:03,2:03,3:03 Force receive; 4:03,5:03 Select Receive if 1:03 ,2:03,3:03 received successfully, 4:03 and 5:03 are no longer automatically received, the maximum time of each receive is 10 minutes, If the correct time is not received within the specified time, the receive is automatically stopped.
	1. Alarm function:
* Alarm Time 2 minutes
* Alarm format:0-20 seconds, per second bi bi 2 sounds,21-60 seconds, per second bi bi bi-bi 4 sounds ,61-120 seconds, continuous BI sounds
* When the alarm is ringing, press 【SN/LIGHT】 key to delay the alarm 5 minutes, press the other key to exit the alarm
	1. Temperature and humidity features:
* Temperature detection range: -10.0℃～50℃[14℉～122℉] , higher than 50℃ display HH. H, less than -10℃ will display LL.L
* Humidity Range: 19% ~ 99% , higher than 99% show HH, below 19% will show LL, temperature display HH. H or LL. L , Humidity display --
* temperature and humidity detection period : 30 Seconds
* Temperature error Range: 20℃～30℃，±1.5℃; other interval ±2℃
* Humidity error Range:30%-80%, ±4%; other interval ±6%
* pause temperature and humidity detection when Alarm noisy or when receiving RCC.
1. **Work Parameters**

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| Project | Unit | MIN | TYPE | MAX |
| Operating voltage | V | 2.4 | 3.0 | 3.5 |
| Static current | UA | -- | -- | 30 |
| Operating temperature | ℃ | -10 | -- | 50 |