

Weathereye Electronic Weather Station: WEA20

Operation Instructions

I .Power On or Reset

1. When Powering on or resetting (by inserting the batteries), the LCD fully displays for 3 seconds, then enters the normal state after a “beep”.
2. The default values are as below:

Calendar	0:00 January 1, 2004.
Alarm	0:00.
Temperature scales	Celsius degrees °C.
Time system	24Hr.

II .Instruction of Keys Operation

2.1 Key functions

Six functional keys: Set, Alarm, Up, C/F, Snooze, Manual

function		Set	Alarm	Up	C/F	Snooze	Manual
operation							
standard mode	Click	-----	Alarm on/off	-----	C/F interchangeable	enter snooze state	RCC On/off
	Hold	enter into clock setting	enter alarm setting	-----	-----	-----	-----
Time set	Click	Confirm the setting	-----	one step forward	-----	-----	-----
	Hold	-----	-----	8steps/second forward	-----	-----	-----
Alarm set	Click	-----	confirm the setting	one step forward	-----	-----	-----
	Hold	-----	-----	8steps/second forward	-----	-----	-----

2.2 Normal states

1. Hold “Set” for 2 seconds to enter time setting mode.
2. Click “Alarm ” to switch the alarm on/off.
3. Hold “Alarm Set” for 2 seconds to enter Alarm setting.
4. Press “C/F” to switch between °C/°F.
5. When ALARM rings, click “snooze” to enter the snooze state, repeating every 5 minutes.
6. Press “MANUAL” key two seconds to enter into the receiving radio signal manually under the mode of the time. And press it again to shut off the receiving status.

2.3 Time set

1. Hold “Set” key for 2 seconds to enter time setting. If automatically receiving the time from the atomic clock, you will need to press “MANUAL” first.
2. The sequence of time setting is: 24hr or 12 hr clock → Hour → Minute → Year → Month → Date → Exit.
3. Press “Set” to confirm the setting, and enter the next setting state.
4. Press “Up” one time, the setting will go ahead for one step; hold the key for 2 seconds, it will run forward by 8 steps/second.
5. During setting, the moon phase will change accordingly.
6. The system will exit automatically if no key is operated in 8 seconds.

2.4 Alarm set

1. Hold “Alarm” key for 2 second to enter into alarm setting.
2. The sequence of alarm setting: Hour → Minute → exit.

3. Press "Alarm" to confirm the setting, and enter the next setting state.
4. Press "Up" one time, the setting will go ahead for one step; hold the keys for 2 seconds, it will run forward by 8 steps/seconds.
5. The system will exit automatically if no key is operated in 8 seconds.

III. Function and Effect

3.1 RCC (Radio Controlled Clock) receiving function:

1. How to enter RCC receiving status:
 - a. It will enter RCC receiving state automatically 3 minutes after powering ON or resetting OR
 - b. It enters RCC receiving automatically at 2:00am, 3:00am, 4:00am, and 5:00am everyday.
OR
 - c. Press "Manual" key for 2 seconds to enter RCC receiving status forcibly.
2. It takes seven minutes to receive the correct time.
3. Icons displayed during receiving :
 - a. When it enters RCC receiving status, the tower-shaped symbol will flash.
 - b. When it is receiving the signal, the tower-shaped part of RCC symbol will be still, while the  symbol of RCC will flash.
 - c. When the signal is too weak to be received, the tower shape of RCC will flash, but the  symbol will not display.
4. When it receives the signal successfully, the whole RCC icon will be ON and will not flash.
5. When it is receiving signals, press "Manual " key to exit RCC receiving status.
6. It will update every day, but if the update has already been received, it will not update automatically again until 2:00am the next day.
7. If it fails to receive a signal at all four update times, it will retry at 2:00am the following day.
8. During receiving RCC, if the alarm rings, it will exit RCC receiving status. It will restart receiving again after the alarm stops.
9. When receiving automatic updates whilst in DST (Daylight Saving Time), it will display a sun symbol on the LCD, and the time will be 1 hour faster.
10. If the time is changed manually whilst in RCC mode, the RCC icon will no longer be displayed and the console will no longer receive automatic updates.

3.2 Alarm Function:

1. The alarm will sound differently as shown below:
 - a. 0 – 10 sec.: one "beep" per second
 - b. 10 – 20 sec.: two "beep" per second
 - c. 20 – 30 sec.: four "beep" per second
 - d. after 30 sec.: "beep" continuously
2. When ringing, click "Snooze" key once to enter snooze state, the alarm will repeat 5 minutes later. The alarm can be switched off by pressing the "Alarm" button.
3. Under snooze state, it will start ringing again if another alarm time is due.

3.3 Temperature and Humidity

1. The indoor temperature range: -20°C -- +50°C
2. The indoor humidity range: 20%-90%
3. Sampling period: 20 seconds.

3.4 Comfort symbols

There are 3 comfort symbols, Com (comfortable), Wet and Dry, which use information from the temperature and humidity reading to evaluate the current environment.

3.5 Trend

The trend for temperature and humidity is shown by the arrows to the right of the measurement. A horizontal arrow shows that the prediction based on previous readings is that the temperature/humidity will remain consistent. An arrow curved upwards shows an increase in temperature/humidity and an arrow curved downwards shows a decrease in temperature/humidity.

3.6 Moon Phase

The moon phase shows roughly how much of the moon is illuminated. If the circle is empty this signifies a full moon. If the left hand half of the moon is full, this signifies that the moon is in the first quarter. The moon is in the last quarter when the right half of the icon is full, and it is a new moon when all four parts are visible.