

RADIO CONTROLLED CLOCK
&
RF WEATHER STATION
INSTRUCTION MANUAL

Part 15.21 of the FCC Rules

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

46-03-G020

Read this instruction thoroughly before operation the unit, and keep it for future reference as it contain important information.

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- In extremely cold day, do not put the wireless sensor outdoors. Just put the sensor with wire (optional)outside.

CHANNEL OPERATION

- There may be 1-3 outdoor temperature wireless sensor, you shall got maximum 3 different RF channel. Do not use 1 more sensor with same channel.
- To check the temperature detected by wireless sensors. You May press [CHANNEL] key on main unit, which will set the channel in turn of CHANNEL 1→ CHANNEL 2→ CHANNEL 3. The unit will automatically display the temperature detected by the wireless sensor.
- To clear the present channel record, press and hold [CHANEEL] for 2 seconds. LCD will show as '---'.

MANUAL TRANSMISSION OF THE WIRELESS SENSOR

- The remote unit automatically transmit signal at interval of 35 seconds around. You may also manually transmit the signal by pressing [TX] key on the sensor. LED on the sensor will light up and icon [Y] will flash once. The main unit shall beep and the radio station icon [P] will flash once, indicating that it get the RF signal.
- Press [°C/°F] key on the sensor will shift change temperature display between °C & °F.
- The dampproof design is done for the wireless sensor,so you must unscrew the screws and remove the battery compartment cover before operating [°C/°F] key or [TX] key.

NOTE

- Signals from other household devices, such as door bells,

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DISPLAY SCHEMA

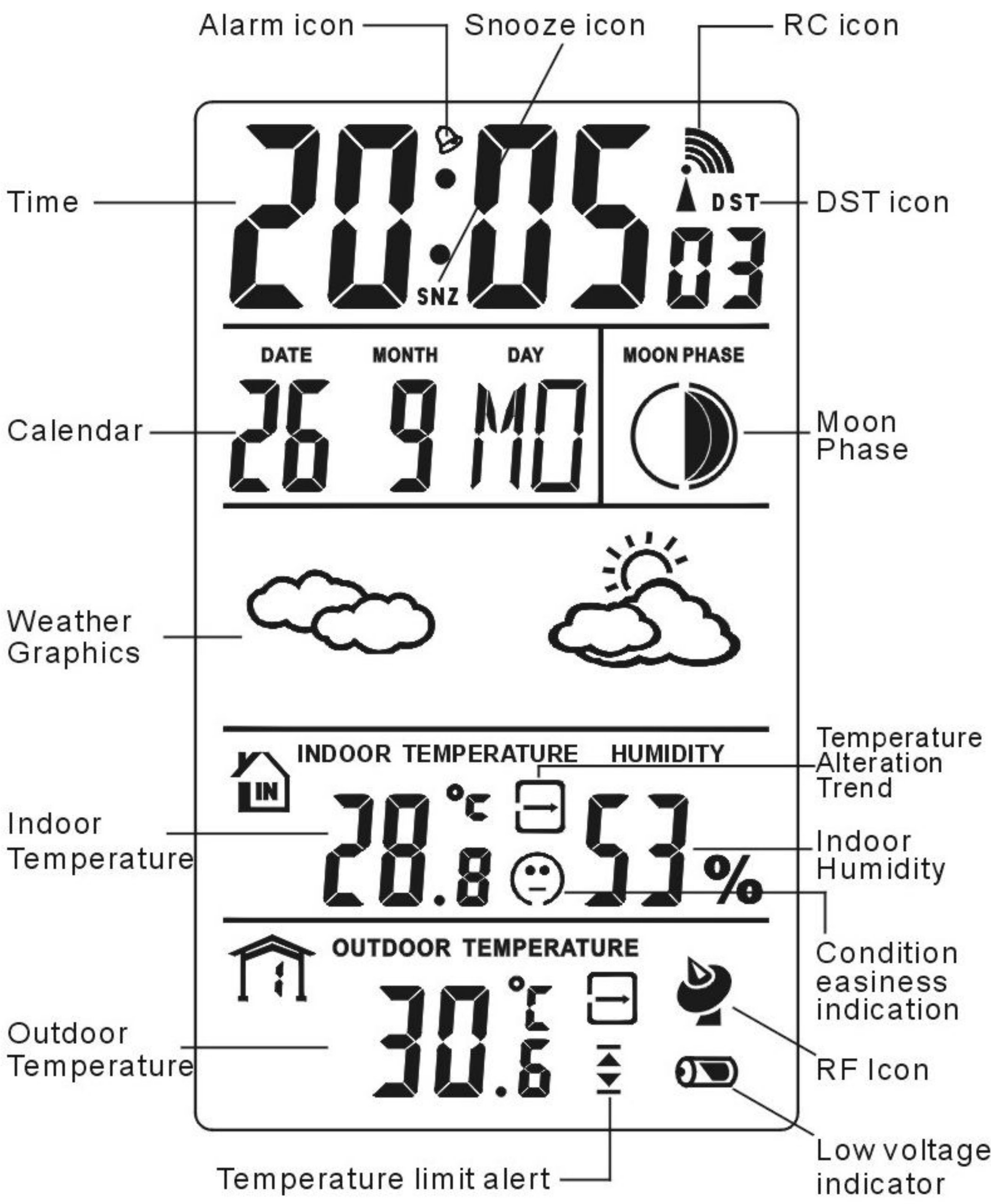


Figure 1. Normal Display and Icons

FUNCTIONS & SPECIFICATIONS

- Radio controlled clock for DCF
- Full calendar
- 12/24 hours display
- 7 languages available for DAY display: English, Italian,French, Dutch,Spanish,Denish,German
- Daily alarm with 5 minutes snooze
- 24 time zone adjustment
- Auto DST(Daylight Saving Time) for RC time
- Moon phase (auto changed according to calendar)
- Indoor/outdoor thermometer (°C/°F)
- Indoor hygrometer, 20% ~95%
- Up to 3 channel 433Mhz wireless thermometer sensor (working distance max. 30M)
- Temperature:
 - Indoor 0°C ~50°C (32°F-122°F) ; resolution 0.1 °C, updating interval 12 seconds
 - Outdoor -49°C-70°C(-56.2°F-158°F); resolution 0.1°C, updating interval 35 seconds
- Graphics mode weather(Sunny,Slightly Cloudy, Cloudy & Rainy)
- Max./Min. temperature record
- Temperature trend
- Alert for outdoor temperature upper limit & lower limit
- Condition easiness indication
- Low voltage indicator for remote sensor
- LED backlight
- Battery: DC1.5V AAA alkaline battery 2pcs for transmitter; DC1.5V AA alkaline battery 2pcs for main unit

KEYS` DESCRIPTION

- TIME SET key
 - Setting time and calendar
- ALARM SET key
 - Setting alarm
- MAX/MIN key
 - Display Max. & Min. record for temperature and humidity
- ALERT key
 - Setting temperature alert
- CHANNEL key
 - Setting wireless receiving channel
- UP-12/24 key
 - When set a item, press it to increase the numeral , press and hold it to adjust rapidly
 - In the normal display mode, press it to toggle hour format between 12/24hr .
- DOWN· °C/°F key
 - When set a item, press it to decrease the numeral , press and hold it to adjust rapidly
 - In the normal display mode, press it to toggle temperature scale between Celsius (°C) and Fahrenheit (°F)
- SNOOZE·LIGHT key
 - Turn on the backlight, when alarming to activate snooze
- RESET key
 - Reset the unit

NOTE: While set a item, in case no operation for 8 seconds, the unit will automatically save setting and exit.

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home security systems and entry controls, may interfere with those of this unit and cause temporarily reception failure. This is normal and does not effect the general performance of the unit. The transmission and reception of temperature readings will resume once the interference recedes.

TIPS

- Press [LIGHT·SNOOZE] key to turn on the backlight for 5 seconds.
- In the normal display mode, to toggle hour format between 12/24hr by pressing [UP·12/24] key.
- In the normal display mode, to toggle temperature scale between Celsius(°C) and Fahrenheit(°F) by pressing [DOWN·°C/°F] key.
- When the LCD begins to fade or displays abnormal or works abnormal, please press [RESET] key on the back of the unit with a thin object, or try to re-install batteries or replace the batteries.
- In case the main unit displays the low voltage indicator, means the batteries for the wireless sensor need to change.
- Do not subject the unit to excessive force, shock, dust, temperature, or humidity, such treatment may result in malfunction. shorter electronic life, damaged batteries or distorted parts.

Condition easiness indication

Display		☺	☹	☹	Blank
Condition	Temperature	20~28°C	20~28°C	20~28°C	Without 20~28°C
	Humidity	40-70%	<40%	>70%	Without 40-70%
		Easy	Dry	Wet	

ABNORMALITY DISPOSAL

- If without obvious reason the main unit cannot get signal from the wireless sensor, the following case may be performed.
 - Reset the main unit.
 - The remote unit of that channel is still in place and working.
 - The batteries of both the remote unit and the main unit is in right condition, replace if necessary.
 - The transmission is within range and the path is clear of obstacles and interference. Shorten the distance if necessary.

WIRELESS SENSOR OPERATION

PLACEMENT

- The sensor equips with a wall-mount holder and a foldable stand.Use either to hold the unit in place. For outdoor usage, keep the sensor away from water and dusty.
- The sensor should be placed within 30M to the main unit. It may vary depends on the location and surroundings. To test if the sensor works right, you may operate it manually (refer to MANUAL TRANSMISSION OF WIRELESS SENSOR).

NOTE: The accuracy of a general weather forecast is about 70%.

OUTDOORTEPERATURE LIMIT ALERT SETTING

- In the normal display mode, press and hold [ALERT] key for 2 seconds, the unit enter outdoor temperature alert setting mode (default value: +70°C for upper temperature limit and -50°C for lower temperature limit), upper limit value and relevant icon [A] will flash, press [UP·12/24] key or [DOWN·°C/°F] key to reset it, then press [ALERT] key to shift setting item. The setting item will flash in the following order.

UPPER LIMIT → LOWER LIMIT → EXIT

- You can set temperature limit value for different sensors by pressing [CHANNEL] key.
- Once complete the alert setting, the alert function will be automatically turned on.
- In the normal display mode, you can press [ALERT] key to turn on/off outdoor temperature limit alert, if it is turned on, the icon [A] will appear.

WHEN THE OUTDOOR TEMPERATURE REARCH THE SET LIMIT VALUE....

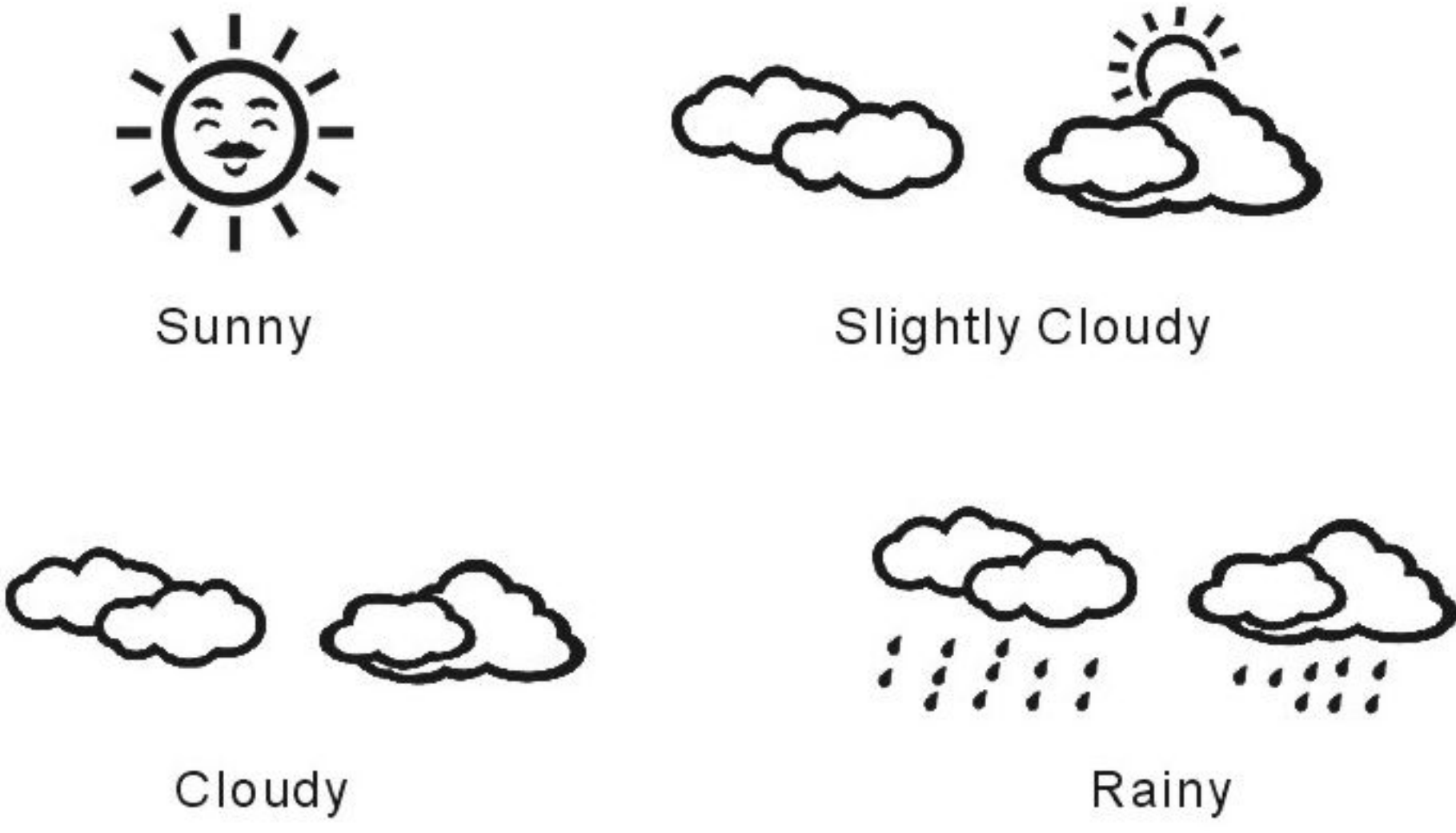
- If the temperature is for the present channel, the unit will alarm, TEMPERATURE & alert icon [A] will flash.
- If the temperature is for the other channel, the unit will alarm, and only alert icon [A] will flash.
- When alarming you can stop alarm by pressing any key other than [ALERT] key, otherwise the unit will alarm for 1 minute. but TEMPERATURE and(or) alert icon [A] still flash till the detected temperature values change to the normal value,

TO BROWSE/CLEAR THE MAX./MIN. HISTORY

- To browse the max. or min. history for thermometer and hygrometer, press [MAX/MIN] key continuously the maximum records, the minimum records and the current record will be displayed circularly.
- When displaying the max. or min. records, press and hold [MAX/MIN] key for 2 seconds to clear the history records.

ICONS RELATED TO WEATHER STATION

Graphics mode weather



Temperature trend

- The temperature variation is within 1°C [T]
- The temperature variation exceed +1°C [T]
- The temperature variation exceed -1°C [T]

FIRST TIME USE

- Install quality batteries into the battery compartment, following the correct polarity as indicated.
- The unit will light up with full LCD display for 3 seconds and then beep to initialize. Then start checking temperature and humidity. 3 minutes later the unit will start checking radio controlled time signal, you will see RC tower icon [P] flashing, for maximum 7 minutes. If the unit can get good quality RC signal and finishes receiving, the full tower icon will appear, in case failed, the tower icon will disappear.

GENERAL CLOCK SETTING & USE

TIME & DATE SETTING

- In case the unit failed to get the RC signal or to change the default settings, you need to operate manual setting.
- In the normal display mode, press and hold [TIME SET] key for 2 seconds, the unit enter time & date setting mode, YEAR will flash, press [UP·12/24] key or [DOWN·°C/°F] key to set it, then press [TIME SET] key to shift setting item. The setting item will flash in the following order.

YEAR → MONTH → DATE → LANGUAGE FOR DAY DISPALY

→ HOUR → MINUTE → TIME ZONE → EXIT

Language Code:
GE-German EN- English IT-Italian FR-French
NE-Dutch ES-Spanish DA-Denish
- When setting the date, the day and moon phase changes accordingly

ALARM SETTING

- In the normal display mode, press and hold ALARM SET key

for 2 seconds, the unit enter alarm setting mode, HOUR will flash, press [UP·12/24] key or [DOWN·°C/°F] key to set it, Then press [ALARM SET] key to shift setting item. The setting item will flash in the following order.

HOUR → MINUTE → EXIT

- In the normal display mode, pressing [ALARM SET] key to switch alarm on/off, if alarm is turned on icon [P] will appear.
- WHEN ALARMING....
- At the set alarm time the unit will alarm, you can press any Key to stop alarm or press [SNOOZE] key to pause alarm and activate 5 minutes snooze, if snooze is activated, icon SNZ will flash.

RADIO CONTROLLED CLOCK USE

- The unit automatically receive RC signal at 2:00,3:00,4:00, 5:00 every day, when receiving, icon [P] will flash.
- If the RC signals received are weak,only the tower icon [P] flash.
- In the normal display, press and hold [DOWN·°C/°F] key for 2 seconds will manually start RC time signal receiving.
- In RC receiving status, press and hold [DOWN·°C/°F] key for 2 seconds pause receiving and icon [P] will disappear.
- If succeeded in receiving,RC icon [P] will appear.
- If the signals received cantain the DST signal,icon DST will appear,indicates DST is coming,time will add 1 hour automatically

WEATHER STATION OPERATION

The unit will automatically display the temperature, humidity and weather status.

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