

WS9132 Manual

Environmental reception effects

The station obtains the accurate time with wireless technology. Same as all wireless devices, the reception is maybe affected by the following circumstances:

- long transmitting distance
- nearby mountains and valleys
- near freeway, railway, airports, high voltage cable etc.
- near construction site
- among tall buildings
- inside concrete buildings
- near electrical appliances (computers, TV's, etc) and metallic structures
- inside moving vehicles

Place the station at a location with optimal signal, i.e. close to a window and away from metal surfaces or electrical appliances.

Precautions

- This main unit is intended to be used only indoors.
- Do not subject the unit to excessive force or shock.
- Do not expose the unit to extreme temperatures, direct sunlight, dust or humidity.
- Do not immerse in water.
- Avoid contact with any corrosive materials.
- Do not dispose this unit in a fire as it may explode.
- Do not open the inner back case or tamper with any components of this unit.

Batteries safety warnings

- Use only alkaline batteries, not rechargeable batteries.
- Install batteries correctly by matching the polarities (+/-).
- Always replace a complete set of batteries.
- Never mix used and new batteries.
- Remove exhausted batteries immediately.
- Remove batteries when not in use.
- Do not recharge and do not dispose of batteries in fire as the batteries may explode.

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- Ensure batteries are stored away from metal objects as contact may cause a short circuit.
- Avoid exposing batteries to extreme temperature or humidity or direct sunlight.
- Keep all batteries out of reach from children. They are a choking hazard.

Use the product only for its intended purpose!

Consideration of duty according to the battery law



Old batteries do not belong to domestic waste because they could cause damages of health and environment. You can return used batteries free of charge to your dealer and collection points. As end-user you are committed by law to bring back needed batteries to distributors and other collecting points!

Consideration of duty according to the law of electrical devices



This symbol means that you must dispose of electrical devices separated from the General household waste when it reaches the end of its useful life. Take your unit to your local waste collection point or recycling centre. This applies to all countries of the European Union, and to other European countries with a separate waste collection system.

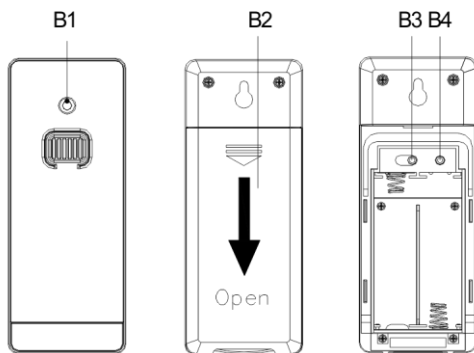
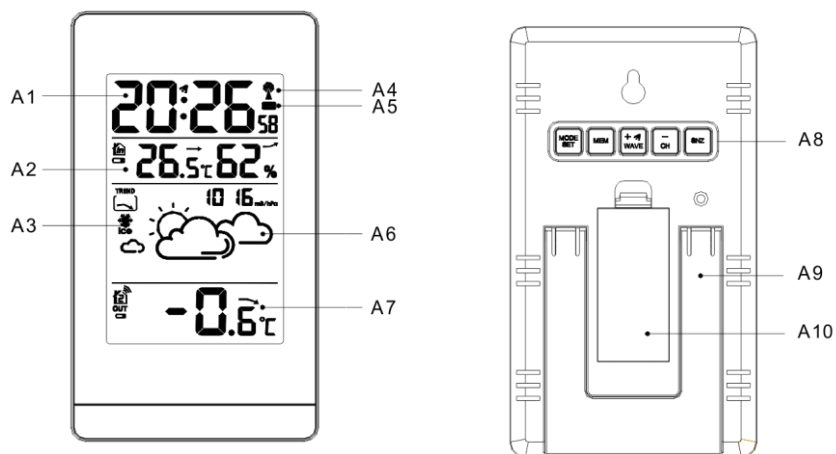
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Features:

- ▶ DCF Radio controlled time function
- ▶ 12/24 hour format
- ▶ Daily Alarm Function
- ▶ Snooze function (OFF or 1~60min)
- ▶ Low battery indicator
- ▶ Maximum /minimum value record of temperature and humidity
- ▶ Temperature in °C or °F
- ▶ Outdoor thermometer ice alert
- ▶ Humidity measurable range: 20%RH ~ 95%RH
- ▶ Temperature:
 - Indoor temperature measurement ranges: -9.9°C (14.2°F) ~ 50°C (122°F)
 - Outdoor temperature measurement ranges: -25°C (-13°F) ~ 50°C (122°F)
- ▶ Remote Sensor:
 - Wall Mount or Table Stand
 - 3 Channels selectable
 - 433.92MHz RF transmitting frequency
 - 30 meter transmission range in an open area
- ▶ Weather forecasting function
- ▶ Power Supply:
 - Weather Station:
 - Battery: 2 x LR03 AAA
 - Remote Sensor:
 - Battery: 2 x LR06 AA

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Weather Station Appearance



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Part A – Weather station

- A1: Time
- A2: Indoor temperature and humidity
- A3: Ice alert icon
- A4: Radio Controlled Icon
- A5: DST icon
- A6: Weather forecast pattern
- A7: Outdoor temperature
- A8: Operation buttons
- A9: Stand cover
- A10: Battery door

Part B – Remote sensor

- B1: Transmit indicate LED
- B2: Battery door
- B3: Channel switch
- B4: Reset button



Initial operation:

- ▶ Open the Weather Station battery compartment cover
- ▶ Insert 2 x AAA batteries observing polarity [“+” and “ –” marks]
- ▶ When you insert the batteries, all icons on the LCD display will light up for 3 seconds, you will hear a beep tone and the station detects indoor temperature & humidity.
- ▶ The Weather Station will now start to make a connection to the outdoor remote sensor. This operation takes about 3 minutes and is displayed by a flashing reception RF antenna symbol in the “OUTDOOR” display area on the receiver.
- ▶ Open Wireless Outdoor Sensor battery compartment cover, Insert 2 x AA batteries observing polarity [“+” and “ –” marks].

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► After receiver has created a connection to the outdoor remote sensor, After 3 minutes it will enter the Radio control time receive mode.

Reception of the DCF signal:



- The clock will automatically search the **DCF** (radio controlled time) signal after 3 minutes of any restart or changing of new fresh batteries. The radio mast icon starts to flash.
- At 1:00 /2:00 / 3:00 am, the clock automatically carries out the synchronization procedure with the **DCF** signal to correct any deviations to the exact time. If the synchronization attempt is unsuccessful (the radio mast icon disappears from the display), the system will automatically attempt another synchronization at the next full one hour. This procedure is repeated automatically up to total 5 times.
- To start manual **DCF** signal reception, press and hold the “  ” button for 3 seconds. If no signals received within 7 minutes, then the **DCF** signal search stops (the radio mast icon disappears) and start again at the next full one hour.
- During RC reception ,to stop searching radio signal, press the “  ” button once.

Please note:








- A flashing radio mast icon indicates that the **DCF** signal reception has started
- A continuously displayed radio mast icon indicates that the **DCF** signal was received successfully
- We recommend a minimum distance of 2.5 meters to all sources of

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interference, such as televisions or computer monitors

- ▶ Radio reception is weaker in rooms with concrete walls (e.g.: in cellars) and in offices. In such extreme circumstances, place the system close to the window.
- ▶ During the DCF reception mode, only the “ WAVE” button has a function, other buttons are not functional. If you want to carry out other functions of operation, please press “ WAVE” button to exit the DCF receiving mode.

Manual settings:

- ▶ Press and hold the “ MODE SET”, 12/24HR start to flash. Now use “+” and “-” buttons to set the set 12 or 24 hour mode.
- ▶ Press the “ MODE SET” button to confirm your setting. The time zone start to flash. Now use “+” and “-” buttons set a time zone (-12 to +12). For example for UK, the time zone is -01, for Germany it is 00.
- ▶ Press the “ MODE SET” button to confirm your setting, the Hour display starts to flash. Now use “+” and “-” buttons to set the hour.
- ▶ Press the “ MODE SET” button to confirm your setting, the Minute display starts to flash. Now use “+” and “-” buttons to set the minute.
- ▶ Press the “ MODE SET” button to confirm your setting, the temperature unit starts to flash. Now use “+” and “-” buttons to choose between °C or °F temperature unit.
- ▶ Press the “ MODE SET” button to confirm your setting, the barometric pressure unit starts to flash, Now use “+” and “-” buttons to set the barometric pressure unit in mB/hPa or inHg.
- ▶ Press the “ MODE SET” button to confirm your setting, the barometric pressure data starts to flash. Now use “+” and “-” buttons to set the

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barometric pressure data according to the local relative air pressure.

If not changed, the value corresponds to the absolute air pressure.

- ▶ Press the “^{MODE} SET” button to confirm your setting, the weather forecast pattern starts to flash. Now use “+” and “-” buttons to set the weather forecast pattern according to the current weather..
- ▶ Press the “^{MODE} SET” button to confirm your setting and to end the setting procedures, the display will return to the normal mode.

Please note:

- ▶ If there is no valid operation within 20 seconds, the station will automatically return to normal time mode from the set mode.

Setting the alarm:

- ▶ Press “^{+ 🔊} WAVE” button once, LCD displays the “

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Please note:

- ▶ If there is no valid operation within 20 seconds, the station will automatically return to normal time mode from the alarm time set mode.
- ▶ The alarm will sound for 2 minutes if you do not deactivate it by pressing any button. In this case the alarm will be repeated automatically after 24 hours.
- ▶ Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.

Switching off the alarm signal

- ▶ Press any button except the “SNOOZE/LIGHT” button to stop the alarm signal. It is not necessary to reactivate the alarm. It switches itself automatically to the alarm time which has already been set.


Snooze function

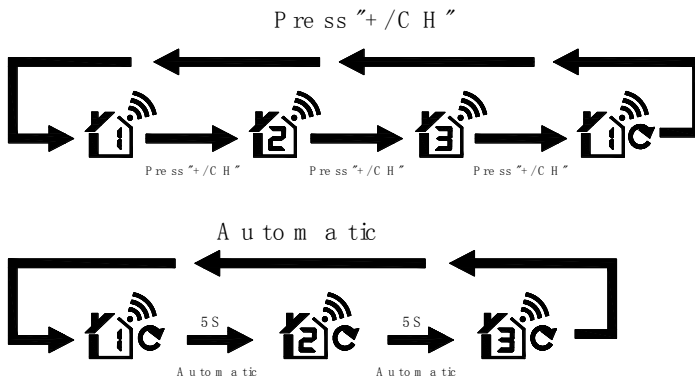
- ▶ When the alarm is ringing, press the “SNZ” button the alarm mode to get to snooze mode. The alarm signal sounds again after already been set. If OFF was selected in the SNOOZE time setting, the alarm will not repeat.

RF Transmission Procedure:

- ▶ The weather station automatically starts receiving transmission from outdoor thermo sensor after batteries inserted.
- ▶ The remote sensor will automatically transmit temperature signal to the Weather Station after batteries inserted.

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- ▶ If the Weather Station failed to receive transmission from outdoor sensor (“-.-”display on the LCD), press and hold the “CH” button for 3 seconds to receive transmission manually. RF icon “” flashes on the LCD of the Weather Station to receive the remote sensor.
- ▶ If the weather station is used with 2 or 3 transmitters, press “+/CH” button shortly to display CH2, CH3 or cyclic display.



Maximum/minimum temperature/humidity

- ▶ Press “MEM” button once, the LCD will display maximum value of temperature/ humidity. If the “MEM” button is pressed again the minimum value is displayed.
- ▶ While displaying MAX or MIN values, there is “MAX” or “MIN” on the LCD.
- ▶ Press and hold “MEM” button for 3 seconds. The temperature/humidity maximum/minimum value will reset to the current values


Please note:


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- ▶ If the temperature reading is below ranges, the **LL.L** will be displayed. If the temperature reading is above ranges, the **HH.H** will be displayed.

Trend displaying

- ▶ The current temperature/humidity/barometric pressure and the temperature/humidity/barometric pressure trend are shown in the LCD display.
- ▶ After successfully connecting with the outdoor sensor, the weather station can display the outdoor temperature and the indoor temperature/humidity trend.
- ▶ You may see the following displays:

 The temperature/humidity/ barometric pressure is rising.

 The temperature/humidity/ barometric pressure is steady.

 The temperature/humidity/ barometric pressure is falling.

Ice alert
















- ▶ The ice alert symbol appears and flashing next to the outdoor temperature when the outdoor temperature at -1°C to $+2.9^{\circ}\text{C}$ or $+30.2^{\circ}\text{F}$ to $+37.2^{\circ}\text{F}$.

Weather forecasting function

- ▶ The weather forecast is calculated from evaluation of fluctuations in the barometric pressure and may deviate from the actual weather conditions.

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► The weather station displays the following weather symbols:

Sunny			
Slightly cloudy			
Cloudy			
Rainy			
Snow			

► The weather symbols indicate the weather fluctuation over the next eight hours and not the current weather.

Technical details

Supply voltage: 2.5~3.3V

Time zone: -12~12Hr

IN Temperature measuring range: -9.9~50°C/14.2~122°F

OUT Temperature measuring range: -25~50°C/-13~122°F

Temperature resolution: 0.1°C/°F

Temperature accuracy:

0°C~40°C: ±1°C

-25°C~-0°C, 40°C~50°C: ±2°C

Humidity measuring range: 20-95%

Humidity resolution: 1%

Humidity accuracy:

40-80%: ±5%

20~39%,81-95%: ±8%

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RF receiving distance: 30meter (free field)

Air pressure measuring range: 850-1100hpa

Air pressure change accuracy: ± 5 hpa