



WS-540



User manual



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DENVER WS-540 - COLORFUL WEATHER STATION

www.denver.eu

Safety information

Please read the safety instructions carefully before using the product for the first time and keep the instructions for future reference.

1. This product is not a toy. Keep it out of reach of children.
2. Keep product and batteries out of the reach of children and pets to avoid chewing and swallowing.
3. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. Check the polarity (+/-) of the batteries when inserting them in the product. Wrong positioning can cause an explosion.
4. Product operating temperature: Main unit: 0°C~+50°C / Sensor: -40°C~+70°C and storage temperature is from -10°C~+60°C Celsius. Under and over this temperature might affect the function.
5. Never open the product. Touching the inside electrics can cause electric shock. Repairs or service should only be performed by qualified personnel.
6. Do not expose to heat, water, moisture, direct sunlight!
7. The unit is not waterproof. If water or foreign objects enter the unit, it may result in fire or electric shock. If water or a foreign object enters the unit, stop use immediately.
8. Do not use non original accessories together with the product as this can make the product functionality abnormal.

Main feature and specifications

1. Main unit
 - 1) Weather forecast for in states: sunny, semi-sunny, cloudy, rainy
 - 2) Seven function buttons: MODE, °C/°F, UP, DOWN, MEM, CH, SNOOZE/LIGHT
 - 3) Seven languages: Germany, French, Italian, Dutch, Spanish, Danish, English
 - 4) Indoor temperature range: 0°C--50°C
 - 5) Indoor humidity range: 20%--90%
 - 6) Outdoor temperature/humidity with RF: up to 3 channels
 - 7) LED backlight
 - 8) Radio Controlled Clock with DCF
2. Remote sensor
 - 1) Outdoor temperature and humidity display
 - 2) Battery compartment: 2 AA batteries (not included)
 - 3) CH switch - Select a channel (1-3)
 - 4) Wall mount hanger - This hole makes it possible to mount the remote sensor on a wall.

- 5) °C/°F button - Switch between Celsius (°C) and Fahrenheit (°F).

Power on and reset

- 1) After batteries are loaded, the main unit is powered on and the LCD turns on.
- 2) 3 minutes later, the main unit starts to receive signals of indoor/outdoor temperature and humidity.
- 3) 3 minutes later, the main unit switches to RF receiving mode.
- 4) Default temperature unit is Celsius display (°C).
- 5) Default time format is 24HR display.

Button operation and display

1. Normal display mode

- 1) "MODE" button - Press to switch between time and alarm display. Press and hold for 2 seconds to enter time setting mode.
- 2) "°C/°F" button - Press/hold down to switch between Celsius and Fahrenheit display (°C and °F).
- 3) "UP" button - Press to select alarm clock
- 4) "MEM" button - Press to show the max/min temperature and humidity. Press and hold for 2 seconds to delete max/min temperature and humidity records.
- 5) "CH" button - Press to switch between CH1/2/3. Press and hold for 2 seconds to clear the currently registered CH.
- 6) "SNOOZE/LIGHT" button - Press to turn on backlight.

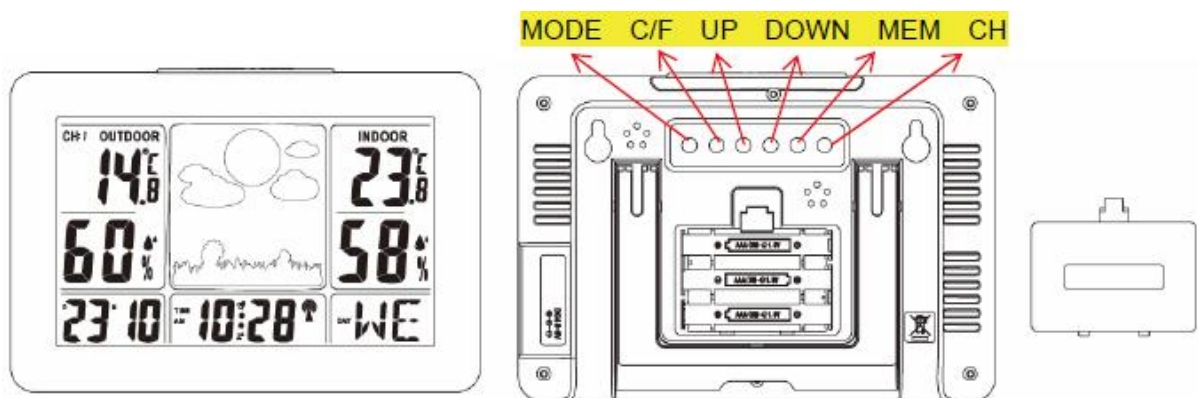
2. Time setting

- 1) In time display mode, hold down the "MODE" button for 2 seconds to enter time setting mode.
- 2) Press or hold down the "UP" / "DOWN" button to set a time digit.
- 3) Press the "MODE" button to confirm the setting.
- 4) Repeat step 2 and 3 above to finish time setting.
- 5) Time setting mode exits automatically if there is no button operation for 30 seconds.

3. Alarm setting

- 1) Press the "MODE" button to switch to alarm time display, and then hold down the "MODE" button for 2 seconds to enter alarm setting mode.
- 2) Press or hold down the "UP" / "DOWN" button to set a time digit.
- 3) Press the "MODE" button to confirm the setting.
- 4) Repeat step 2 and 3 to finish alarm time setting.
- 5) Alarm setting mode exits automatically if there is no button operation for 30 seconds.
- 6) After setting, alarm is activated.

Function description



EN	EN
MODE	MODE
°C/°F	°C/°F
UP	UP
DOWN	DOWN
MEM	MEM
CH	CH

1. RF receiving function

- 1) After loading batteries and checking temperature/humidity, 3 minutes later the main unit enters RF receiving mode.
- 2) In normal display mode, hold down the “CH” button for 2 seconds to clear the channel information.
- 3) If no effective signal with the same ID code is received in the current channel for 35 minutes, the temperature of the current channel shows “--. -”.
- 4) If effective signal is received again, normal temperature display resumes.

2. Alarm function

- 1) The buzzer rings for 2 minutes at different rates described below.
 - a. 0 – 10 seconds at the beginning, beep once per second.
 - b. 10 – 20 seconds later, beep twice per second.
 - c. 20 – 30 seconds later, beep four times per second.
 - d. 30 seconds later, beep continuously.
- 2) During buzzer ringing, press the “SNOOZE/LIGHT” button once to enter 5-minute interval snoozing mode. To exit snoozing mode, press any other button.

3. RCC/Radio Controlled Clock (10-minute RCC receiving):

- 1) RCC signal receiving starts when powering on or resetting the product, or after RF receiving is available.
- 2) RCC signal receiving starts automatically every day at 2:01/3:01/4:01/5:01.
- 3) Hold down the “DOWN” button for 3 seconds to switch to RCC manual mode.

- 4) Press the “DOWN” button to stop RCC signal receiving when receiving RCC signal successfully and the RCC symbol () is displayed.
- 5) The RCC symbol () disappears on the display if resetting time manually.
- 6) RCC signal indication:
 - During RCC signal receiving, the tower-shape part of the RCC symbol flickers in 1Hz frequency.
 - When successful receiving, both the tower-shape and arc parts of the RCC symbol turn to a solid display.

EN
Manufacturer's name or trade mark, commercial registration number and address Dongguan Shijie Hua Xu Electronics Factory 914419007946843518 No. 200, Technology East Road, Shijie Town, Dongguan City, Guangdong, P. R. China
Model identifier: HX075-0501200-AG-001
Input voltage: 100-240V
Input AC frequency: 50Hz/60Hz
Output voltage: 5.0V
Output current: 1.2A
Output power: 6.0W
Average active efficiency: 77.63%
Efficiency at low load (10%): 71%
No-load power consumption: 0.1W

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All cities have established collection points, where electric and electronic equipment can either be submitted free of charge at recycling stations and other collection sites or be collected from the households. Additional information is available at the technical department of your city.

Hereby, Denver A/S declares that the radio equipment type WS-540 is in compliance with Directive 2014/53/EU. The full text of the RED declaration of conformity is available at the following internet address: denver.eu and then click the search ICON on topline of website. Write model number: WS-540. Now enter product page, and RED directive is found under downloads/other downloads.

Information on standby/off mode power consumption and power management for products compliant with Commission Regulation (EU) 2023/826 can be found at the following internet address: denver.eu and then click the search ICON on topline of website. Write model number: WS-540 and enter the page.

Operating Frequency Range: 433.92MHz $\pm$ 500KHz
Max RF Output Power: 12~15dBm

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