

WS-520



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denver.eu

06/25

DENVER WS-520 - Touch Screen 433MHz weather station

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) LCD touch control: (a) MEM/▼, (b) °C/°F/SET (c) CH/▲
- 2) Current time, 12/24 hour selectable, °C/°F selectable
- 3) Indoor temperature and humidity display
- 4) Outdoor temperature and humidity display
- 5) Indoor temperature range: 0°C~+50°C, indoor humidity range: 20%~90%
- 6) Indoor and outdoor temperature max/min records
- 7) Channel display (for connected remote sensors)
- 8) Humidity indicator (Bucket)
Indicates the current room atmosphere.
- 9) Battery compartment
- 10) Stand - Foldable. Use this stand to place the device on a flat surface.
- 11) Wall mount hanger - This hole makes it possible to mount the remote sensor on a wall.
- 12) Battery: 2xAAA, battery not included.

2. Remote sensor

- 1) Outdoor temperature and humidity display

- 2) Battery compartment: 2xAA, battery 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- This button selects between Celsius(°C) and Fahrenheit (°F).

Power-On and Reset

- 1) Once batteries are insert main unit and sensor for about 3 seconds, product LCD will be full display.
- 2) After 3 minutes, main unit will be receive indoor / outdoor temperature and humidity.
- 3) After 3 minutes, main unit will be exit to RF receive.
- 4) Default temperature unit: °C
- 5) Default time unit: 24HR

Keys Operation and Display

KEYS		MEM/▼	°C/°F/SET	CH/▲
OPERATION				
Standard mode	Click	Max/Min records	Switch of °C/°F	Switch of channels
	Hold	Clear Max/Min records	Start Time setting mode	RF re-receiving
Time setting mode	Click	Decrease	Confirm and start the next setting	Increase
	Hold	Decrease in 8 steps/seconds	-----	Increase in 8 steps/seconds

Button operation

1. °C/°F/SET BUTTON

1) Standard mode

- a) Click - °C/°F switchable
- b) Hold - Start time setting mode

2) Time setting mode

- c) Hold “°C/°F/SET” and start time setting mode. Setting object is flashing in 1Hz/seconds. Click “CH/▲” or “MEM/▼” to increase/decrease number, then click “°C/°F/SET” to confirm and start the next setting
- d) Setting sequence: Hour → Minute → 12/24 hour → ON/OFF → Exit
- e) ON/OFF: “ON” selected: Clear to-day Max/Min records at 00:00; “OFF” selected: Keep to-day Max/Min records

- f) Set the seconds to zero automatically when minute setting
- g) Keep setting data and exit automatically if there is no keys operation in 20 seconds

2. CH/▲ BUTTON

1) Standard mode

- a) Click - RF switchable. CH1 → CH2 → CH3 → Cycling display (every 10seconds)
- b) Hold - More than 3seconds, start to receive RF and clear all RF data. Exit if not receive in 3 minutes

2) Time setting mode

- c) Click 1 time for 1 step increasing
- d) Hold for rapidly increasing

3) RF receiving mode

- e) Click - RF switchable. CH1 → CH2 → CH3 → Cycling display (every 10seconds)
- f) Hold more than 3s, exit RF receiving mode

3. MEM/▼ BUTTON

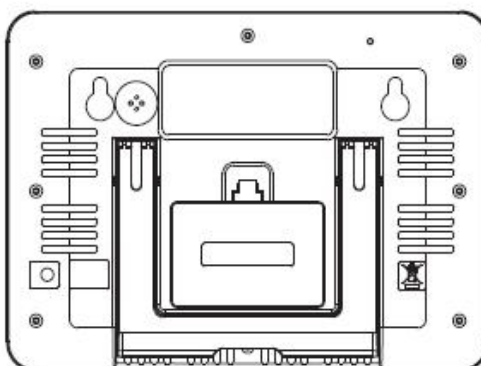
1) Standard mode

- a) 1st click - display 5s for indoor /outdoor temp & humidity Max record, 2nd click - display 5s for Min record, 3rd click - back to standard mode
- b) Hold for 3seconds, manually clear Max/Min records

2) Time setting mode

- c) Click 1 time for 1 step decreasing
- d) Hold for rapidly increasing
- e) Keep setting data and exit automatically if there is no keys operation in 20 seconds

Function and Effect Instruction



1) Outdoor VS Indoor Humidity

<u>Absolute humidity variation</u>	<u>Display</u>
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Percentage	-
Less than +/-4%	NO CHANGE
More than +5%	MORE WET
Less than -5%	MORE DRY

2) Comfort index

Humidity	DRYE	COMFORT	WET
%	20%-44%	45%-65%	65%-95%

3) Window Open/Close indicator

Open Window	Close Window
	

Please notice - All products are subject to change without any notice. We take reservations for errors and omissions in the manual.

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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-520 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-520**. 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-520** and enter the page.

Operating frequency range: 433.92MHz $\pm$ 500KHz

Max RF output power: 12~15dBm

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