# DENVER WS-520 - Touch Screen 433MHz weather station

## Main feature and specifications

1. Main unit
LCD display with 3 touch buttons: (a) MEM/▼, (b) ℃/℉/SET  (c) CH/▲
Shows current time, 12/24 hour selectable & °C/°F selectable
Shows Indoor temperature and humidity
Shows Outdoor temperature and humidity
Indoor temperature range: 0℃~+50℃,indoor humidity range:20%~90%
Indoor and outdoor temperature max/min records
You can connect up to 3 outdoor sensors (channel 1-3 selectable on main unit)
Humidity indicator on display (graphical bucket)
Indication of current room atmosphere
Can be placed on a table using the built-in stand, or hung on a wall using the holes for mounting
Battery: 2xAAA (main unit) + 2xAA (outdoor sensor). Batteries are not included.

2. Remote sensor
   Outdoor temperature and humidity display
   Battery compartment
   CH switch-Select a channel (1-3)
   Wall mount hanger-This hole makes it possible to mount the remote sensor on a wall.
   ℃/℉ button- This button selects between Celsius(℃) and Fahrenheit (℉).

## Power-On and Reset
1) Start inserting batteries into main unit, and then in outdoor sensor afterwards. After approximately 3 seconds the display will turn on.
2) After 3 minutes, main unit will show both indoor & outdoor temperature and humidity.
3) After these 3 minutes the RF search will stop on the main unit (so if you want to connect additional sensors, you have to start RF search again)
4) Default temperature unit is set to Celsius, and default time set to 24HR display

## Keys Operation and Display

| KEYS OPERATION | | | ℃/℉/**SET** | CH/▲ |
|---|---|---|---|---|
| **Standard mode** | Click | Max/Min records | Switch of ℃/℉ | 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.** ℃/℉/**SET BUTTON**

1) Standard mode

    a）Click - ℃/℉ switchable

    b）Hold - Start time setting mode

2) Time setting mode

    c）Hold "℃/℉/**SET**" and start time setting mode. Hour or minute will flash every 1 second. Click "**CH/▲**" or "**MEM/▼**" to increase/decrease the number & then click "℃/℉/**SET**" to confirm and go to next setting

    d）Setting sequence: Hour → Minute → 12/24 hour → ON/OFF → Exit

    e）ON/OFF: "ON" selected: Daily max/min records are cleared at 00:00; "OFF" selected: Max/Min records are kept until you delete them manually.

    f）The unit will auto save if no keys are pressed 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 RF search and clear all RF data. Search will be cancelled if no pairing is found within 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)

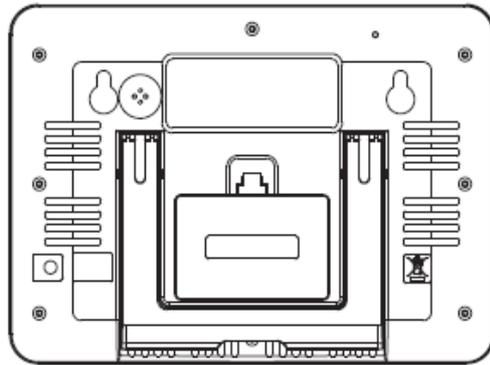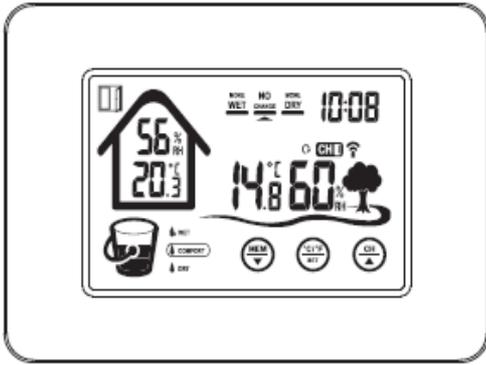    f) Hold more than 3s, exit RF receiving mode

**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) The unit will auto save if no keys are pressed in 20 seconds.

# Function and Effect Instruction

## 1) Outdoor VS Indoor Humidity

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

## 2) Comfort index

| Humidity | DRY | COMFORT | WET |
|---|---|---|---|
| % | 20%-44% | 45%-65% | 65%-95% |

## 3) Window Open/Close indicator

| Open Window | Close Window |
|---|---|
| | |