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SENCOR SWS 4100 Color Display Weather Station User Manual

SENCOR®

SWS 4100 Color Display Weather Station
User Manual

Contents

SWS 4100 Color Display Weather Station

SWS 4100
Color Display Weather Station

We thank you for the purchase of our Color Display Weather Station. It has been designed and constructed using innovative components and techniques to enable the perfect display by this device.
This unit is also equipped with an outdoor sensor.
Please read the entire instruction manual before using the product and then save it for future reference.
We reserve the right for any errors in test or images and any necessary changes made to technical data.

Things to consider:

1. Other wireless equipment using the same frequency band can reduce the transmission range.
2. The range of all wireless equipment depends on the type of obstacles located between the transmitter and the receiver (e.g. a concrete wall will interfere with the signal much more than a plasterboard wall).

If you experience problems, try the following:

1. Turn off any other existing wireless equipment to check whether this is the cause of the problem.
2. Move any other existing wireless equipment. Shorten the distance between the sending and receiving devices and reduce the number of obstacles(walls, furniture, etc.) between them.
3. Try removing and reassembling batteries, if the batteries are old, try new ones.

SAFETY AND GUIDE

Do not clean any part of the product with benzene, thinner or other solvent chemicals. If necessary, clean it with a soft cloth.
Do not dismantle or modify the product in any way.
Never immerse the product in water, It will damage the product.
Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
Do not tamper with the internal components.
Do not use used batteries .

Do not use different types of batteries alkaline, standard or rechargeable batteries with this product.
Remove the batteries if storing this product for a long period of time, otherwise the battery might damage the product.
Do not dispose of this product as unsorted municipal waste, it's necessary to separately collect it for special treatment.
Do not place the main unit in rain or moisture. The transmit range depends on the type of obstacles located between the transmitter and the receiver (e.g. a concrete wall will interfere with the signal much more than a plasterboard wall).
Be sure the sensor is mounted vertically, to allow moisture to drain out properly. Place out of direct sunlight & ensure the sensor is well-ventilated.
The distance between main unit and sensors should be at least 5~ 6.5 feet (1.5~2 meters) away from any interfering sources such as computer monitors or TV sets.
The main unit stay away from the metal window frames.
Please do not use other electrical products such as headphones or microphone operating on the same signal frequency. (433.92MHz), neighbors using electrical devices operating on the same signal frequency can also cause interference.
Place the main unit in a dry area, free of dirt and dust. To ensure accurate temperature measurement, place out of direct sunlight and away from heat sources or vents.

PACKAGE CONTENTS
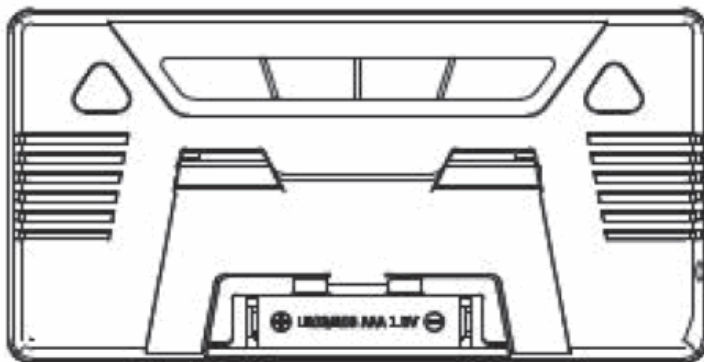
1 x Digital Weather Station
1 x Remote Sensor
1 x User Manual
1*DC Adaptor
(Batteries are not included)

MAIN UNIT INSTALLATION

- Remove the protective film that is applied to the LCD screen prior to using the product.
- Plugged in with power adapter and use, battery-power is optional, since previous setting will be reset when plugged out, we recommend install the batteries for the base station.
- Base station can stand upright on the table or mount on the wall.
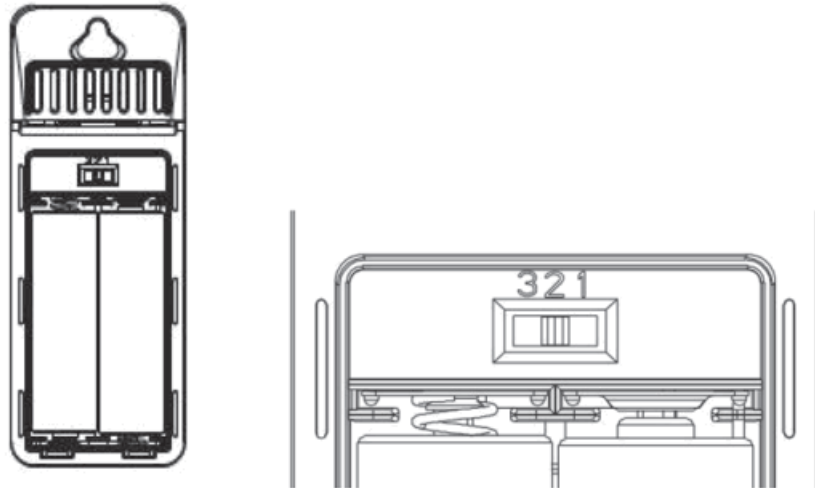

SENSOR INSTALLATION

Base station supports up to 3 sensors connection, the sensor switch is located inside the battery compartment, it can be switched 1,2,3, matching the info of Channel 1, Channel 2, Channel 3 that synchronize on the OUTDOOR position.

1. Remove the battery compartment cover, chose the channel (1,2,3)by switching the channel shift.
2. Insert 2 x AA batteries matching the correct polarity (+ and -), the red led light will flash for once, then assemble
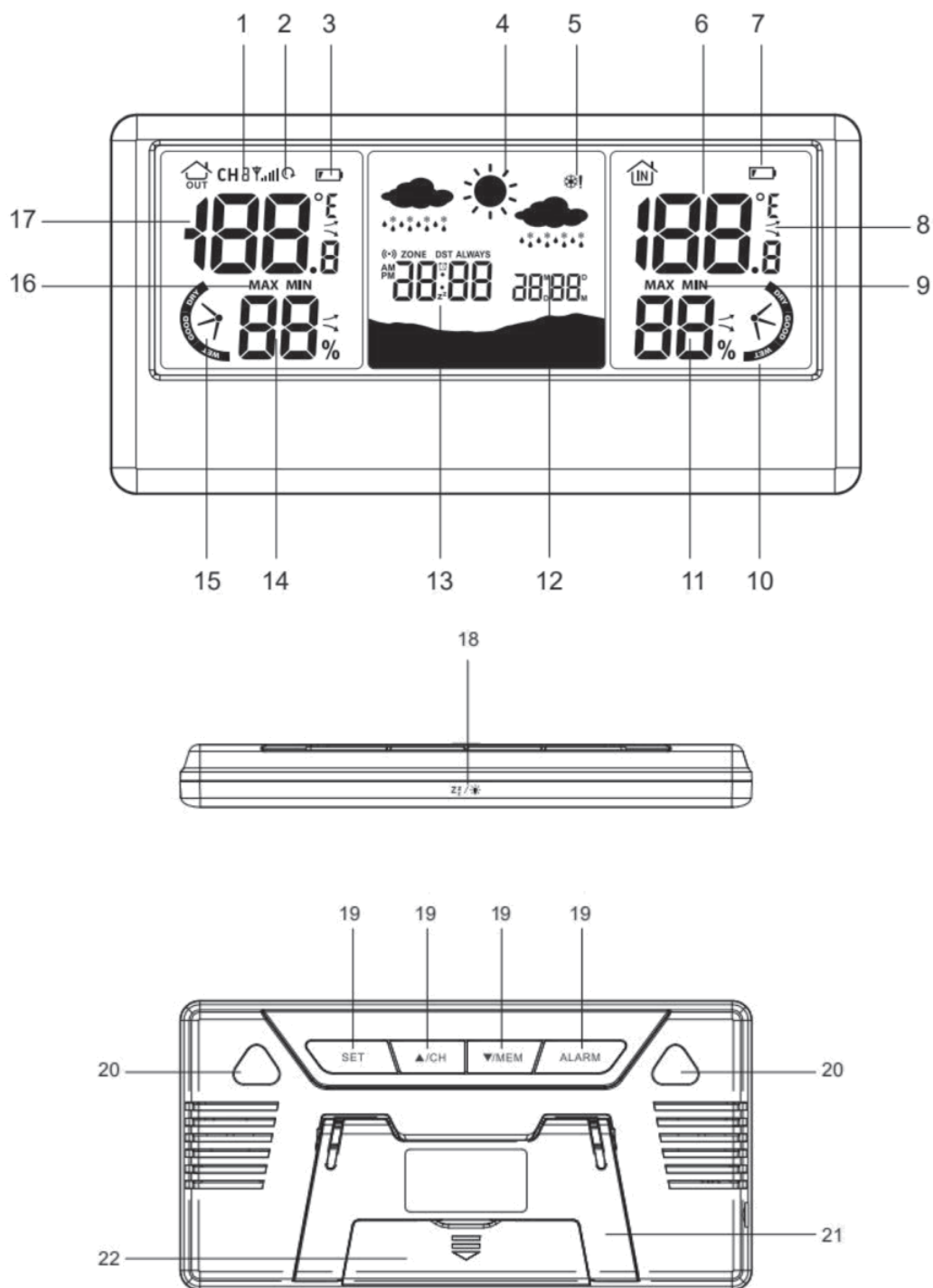
the battery compartment.

3. Put the sensor the position you desire.

Low Battery Indicator
When battery power for main unit is lower than 3.6V,or when the power for remote sensor is lower than 2.5V, the low battery indicator will display on the LCD. When it is powered by DC adaptor, the batteries are for memory function. If the low battery indicator for main unit still shows, that means the batteries' power for main unit is lower than 3.6V,please check the batteries situation. To avoid batteries runs out, getting rotten and damage the units. please change batteries on time when low battery indicator appear. Please use alkaline dry batteries, do not use rechargeable batteries.
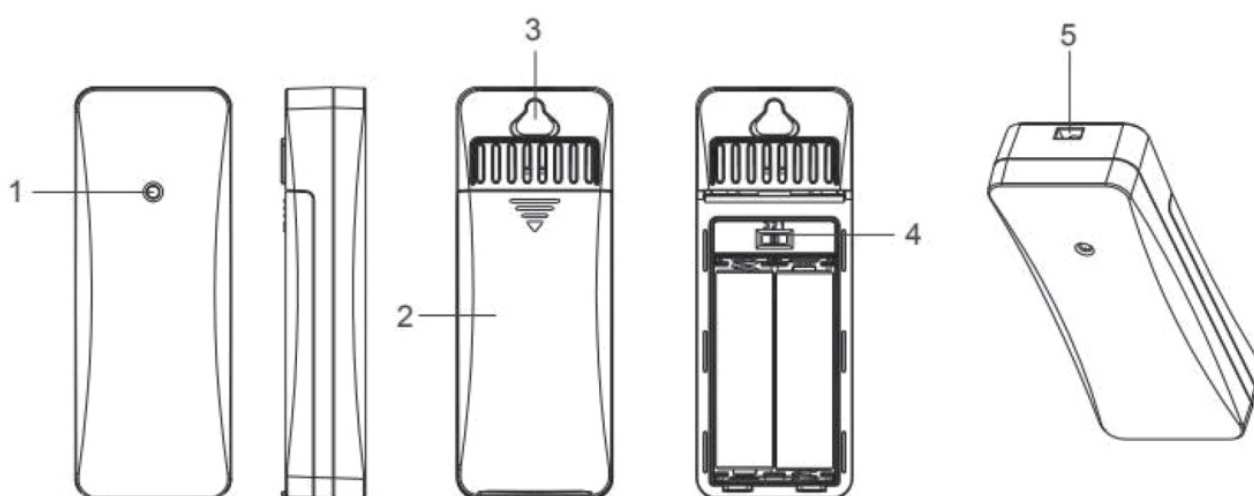
LCD DISPLAY

1. Outdoor temperature and humidity
2. 3 outdoor channels display in loop
3. Low battery Indicator (Sensor)
4. Weather Forecast
5. Freezing Alert
6. Indoor temperature
7. Low battery Indicator (main unit)
8. Trends for temperature and humidity
9. Max Min record for indoor temperature and humidity in 24hours
10. Comfortable Indicator for indoor
11. Indoor humidity
12. Calendar

13. Current time

14. Outdoor humidity

15. Comfortable Indicator for outdoor

16. Max Min record for outdoor temperature and humidity in 24hours

17. Outdoor Temperature

18. Touch button – **SNOOZE**/**LIGHT** /☀)

19. Buttons (SET,▲/CH,▼/MEM, ALARM)

20. Hanging hole

21. Stand

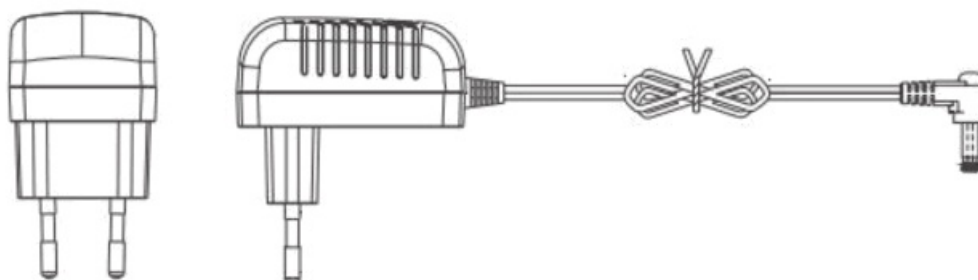22. Battery compartment cover

SENSOR

1. LED light

2. Battery compartment Cover

3. Hanging hole

4. Channel shift

5. Rope hanging hole

   When the red led light flash, it is sending signal to main unit.

DC ADAPTOR

FEATURES

- Time and Calendar(Date/Month/Year)

- 12/24 hours format switchable
- Alarm with snooze function
- Weather forecast with 5 status: sunny, partly cloudy, cloudy, rainy, and snowy
- Indoor temperature and humidity
- Outdoor temperature and humidity
- Support up to 3 sensors (1 included)
- Function auto scrolling measured data of all 3 outdoor sensors
- Max/ Min memory records for all indoor and outdoor temperature and humidity
- Trend index
- C/F(Celsius/Fahrenheit) switchable
- Comfortable Indicator
- Max/ Min memory records
- Low battery indicator
- Tone on/off function
- Transmission range: up to 80 meters in open area
- 3-mode brightness: Bright/Dim/Off
- Table standing or wall hanging
- Sensor Transmission Frequency:433.92MHZ
- Main Unit Power: 3*1,5V type AAA(Batteries Not Included) & 5V 1.2A DC Adaptor(Included)
- Sensor Power:2*1,5V type AA(Batteries Not Included)

OPERATION INSTRUCTION

		SET	▲/CH	▼/MEM	ALARM	SNOOZE/LIGHT
Standard Mode	Press	——-	Switch CH1/CH2/CH3	View Max- Min record	View alarm time, turn on/off alarm	*Light up backlight when power by batteries *Switch to different backlight lever *Snooze when alarm *Save and exit during setting
	Hold	Start Time and Calendar setting	Clear all the data on 3 channels, and re-check new data	Clear Max/ Min record for indoor and outdoor	Start Alarm Setting	____
Time Setting	Press	Confirm	Increase 1 step	Decrease 1 step	____	*Save and exit during setting
	Hold	Start time setting	Increase Fast	Decrease fast	____	____
ALARMs Setting	Press	——	Increase	Decrease	Confirm	*Save and exit during setting
	Hold	——-	Increase Fast	Decrease fast	____	____
ALARM Ring On Mode	Press	Stop alarm ringing	Stop alarm ringing	Stop alarm ringing	Stop alarm ringing	Snooze on
	Hold	——-	——-	____	____	____

Touch button snooze/light , should be operated for 1 second each operation.

SETTING GUIDE

Press and hold **SET** button, to enter Tone on/off, 12/24h,C/F switch, time setting mode.
Press ▲/CH button, to switch channel 1/2/3,Press and hold ▲/**CH** button 3seconds to increase fast, or clear all the data on 3 channels, and re-register new data
Press ▼/MEM button, to view Max-Min record, Press and **hold, ▼/MEM** button, to clear Max/Min record for indoor and outdoor
Press **ALARM** button, to view alarm time & status, Press and hold ALARM button, to enter Alarm setting Mode
Press and hold **ALARM** , enter into alarm time setting mode
Press **SNOOZE/LIGHT** , backlight will light up for 20 seconds when powered with batteries; The setting
will be saved and exit, the backlight lever will change from high-soft-off in loop.
When it alarms, press any button to stop alarming, press **SNOOZE/LIGHT** to enter into snooze mode, then alarm again after 5 minutes, press any button to stop it when alarming or during the period of snooze.

TIME SETTING

1. In standard mode, press and hold SET key for 3 seconds, Weather Station will start time setting and the figure
   to be set will flash, The setting order is: Tone voice BI on\off→ 12\24h →hour → minute →year→ DM/MD →
   month→ date → C/F→ confirm and exit. **During setting, only the setting figure will display, other parts**

will be invisible.

2. Press ▲/**CH or** ▼/**MEM** to change the setting item to the desired values; Press ▲/**CH** , the value to be set will increase 1, Press and hold ▲/**CH** , during setting, the value will increase fast. Press ▼/**MEM** , the value to be set will decrease 1, Press and **hold** ▼/**MEM** , during setting, the value will decrease fast.

3. The setting will be automatically confirmed and exit if there is no operation within 20seconds.

4. Press SET button to confirm the setting.

5. No operation in 20 seconds, it will save current setting and exit.

ALARM AND SNOOZE

1. Press **ALARM** button to check alarm time or alarm on/off status. If alarm is on, the alarm icon will display. It will return to normal time display mode if no operation in 5 seconds.

2. Press and hold alarm to enter alarm setting. The figure to be set will be flashing.

3. The setting sequence is: Hour-Minute -Exit.

4. Press ▲/**CH** or ▼/**MEM** to change the setting item to the desired values;

5. The setting will be saved and exit if no other setting within 20 seconds.

6. The alarm sound will last for 2 minutes, and will change as below

    0-10seconds:BIpersecond

    11-20seconds:BIBIpersecond

    21-30seconds:BIBIBIBIpersecond

    31-120seconds:KeepBIsound

7. The alarm ring lasts 2 minute and then be canceled automatically. Press any other button to stop alarm sound, which will activate again after 24 hours.

8. Snooze Function: When alarm ring is on, press **SNOOZE/LIGHT** button to enter into snooze function for 5 minutes, the snooze icon z^z display. When the snooze time is up, the alarm rings.
    The snooze ring lasts 2 minute and then be canceled automatically. press any other bottom except **SNOOZE/LIGHT** to turn the snooze ring off.

9. To fully deactivate the alarm, press **ALARM** button in standard mode, to turn it off, then the icon will disappear.

TEMPERATURE & HUMIDITY

1. °C/°F Switchable

    INDOOR temperature range:-9.9°C~50°C(14°F~122°F)

    OUTDOOR temperature range:-40°C~60~(-40~140°F)

    INDOOR humidity display range:1%RH~99%RH

    OUTDOOR humidity display range:10%RH~99%RH

    LL.L&HH.H will display when out of range

2. Trends:

    Trends Icon will not display at the moment of powering on.

    The trend ⟋ willdislay,whenthetemperatureincrease1°Ccomparedtolastdata,orincrease1°C in 1 hour;

    The trend ⟋ willdislay,whenthehumidityvalueincrease3%comparedtolastdata,orincrease3% in 1 hour;

    vice the verse for decrease trends; when the increase/decrease is less then 1°C or 3% in 1 hour, no trend icon

will display.

MEMORY

1. Under normal time displaying mode, press **[♦/MEM]** button to check the 3 channel indoor and outdoor temperature and humidity, the record sequence is :Indoor/outdoor maximum temperature &humidity— indoor/outdoor minimum temperature &humidity. No operation in 5 seconds, it will return to current temperature &humidity display.
2. Max/Min: The maximum/minimum records will be cleared automatically at 00:00 everyday. Or manually clear the max/min record by holding **[♦/MEM]** at Time Display mode. It will clear the record, and display the current value.

RF-OUTDOOR TERPERATURE AND HUMIDITY

1. The weather station will automatically receive signal sending back from the external sensor after powering on, the receiving status will last for max 3 minutes, the receiving antenna signal will flash, if no signal received in 3 minutes, receiving signal will exist and stop receiving outdoor signal. Signal re-synchronization will be reactivated next hour until the signal got and data displayed on the main unit.
2. Under normal time displaying mode, press and hold **IA/CH]** button more than 2 seconds to manually start the RF re-registration then.
3. If no signal received within 2 hours, "–.-" will be display in the corresponding CH.

CHANNEL & SENSOR OPERATION

1. The weather station supports max connection with up to 3 sensors.
2. Remove the battery cover of sensor and slide CH switch to **CH1**/**CH2**/**CH3,** make sure each sensor is assigned to a different **CHANNEL** number.
3. It is recommended to put CH1 sensor in outdoor for more accurate weather forecast, and put other sensors in your desired area.
4. In standard mode, Press ▲/**CH** button to check the outdoor temperature and humidity of channel 1/2/3. When you switch to the mode, the display will automatically loop 3 sensor' data. If you want to reset all the data of sensors, press and hold ▲/**CH** button 3 seconds, and it will reconnect with the sensors.

REMARKS

1. The distance between main unit and transmitter should be at least 5~ 6.5 feet (1.5~2 meters) away from any interfering sources such as computer monitors or TV sets.
2. The main unit cannot stand close to metal window frames.
3. Please do not use other electrical products such as headphones or speakers operating on the same signal frequency.
4. Neighbors using electrical devices operating on the same signal frequency can also cause interference.
5. Frequency:433.92mHZ
6. Signal receive Distance: 80mters

Re-synchronize the devices
When temperature and moisture readings for outdoor sensors are not shown on the main unit, please try re-synchronize the devices. Make sure main unit is powered on firstly, then assemble the batteries for sensors, the red light on the sensor will flash and send signal to main unit.

WEATHER FORECAST

WEATHER ICON					
Description	Sunny	Partly Cloudy	Cloudy	Rainy	Snowy

Weather forecast in 12+ Hour: Sunny, Partly Cloudy, Cloudy, Rainy, Snowy
The weather icon displays are based on the hourly calculation of indoor/outdoor temperature &humidity.
The forecast station predict weather conditions for the next 12 hours with 70-75% accuracy. The remote sensor should be put on the outside to have accurate outdoor data. Or it will effect the accurate of weather forecast.
The default display weather is partly cloudy, the main unit will calibrate the weather report in 1–2 weeks with the temperature and humidity data changes.
The remote sensor should be place outside to get accurate outdoor data or it will effect the accurate of weather forecast.

COMFORT LEVEL INDEX

Comfort level displays with 3 status: DRY, GOOD, WET

Comfort Level	Humidity Range
Dry	1–40%
Good	41–75%
Wet	76%

BACK LIGHT
When the base station powered with batteries only, touch SNOOZE/LIGHT for 1 second at the top, momentarily light up the screen for 20 seconds.
When powered by adapter, touch SNOOZE/LIGHT to adjust the brightness BRIGHT-DIM-OFF.
LOW BATTERY ALERT
Install the battery to check the status every minute, the icon Low battery indicator will display when it is low. We recommend you to replace the batteries, in case that the batteries got rotten and effect the unit.
FREEZING ALERT

When the temperature is 0~2.9°C, the snow icon ❄! ＊ will flash;

when temperature value is lower than 0°C, the snow icon ❄! ＊ will display.

POSITIONED METHODS

The weather station can be positioned in 2 ways as desired.
● Take out the metal stands in the battery compartment, assemble them to the metal stand holes.
● Hang on the wall by hanging hole
The sensor can be positioned in below ways,

1. Use the hole at the top to hang your sensor from the back using a nail.
2. Mount your sensor on a north-facing wall or in any shaded area. Under an eave or deck rail is preferred.
3. The maximum wireless transmission range to the weather station is up to 80 meters in open air, not including walls or floors.
4. Be sure our sensor is mounted vertically, to allow moisture to drain out properly. Keep out of direct sunlight & ensure the sensor is well-ventilated.

PRECAUTIONS

- Do not clean any part of the product with benzene, thinner or other solvent chemicals. When necessary, clean it with a soft cloth.
- Never immerse the product in water. This will damage the product.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not mix alkaline, standard or rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

SPECIFICATIONS

Indoor Temperature Range	-9.9°C to +50°C
Outdoor Temperature Range	– 40°C to +60°C
Indoor Humidity Range	1% to 99% RH
Outdoor Humidity Range	10% to 99% RH
Temperature Display	in °C/°F Selectable
Transmission Between Main Unit and Sensor	up to 80 m (in Open Area)
Sensor Transmission Frequency	433.92 MHz
Power Adaptor of Main Unit	DC 5 V / 1200 mA (Included), Consumption: 6 W
Battery Back-Up of Main Unit	3 x 1,5 V Type AAA (Batteries Not Included)
Power of Sensor	2 x 1,5 V Type AA (Batteries Not Included)
Dimensions of Main Unit (w/h/d)	147 x 74 x 17 mm
Dimensions of Wireless Sensor (w/h/d)	38 x 100 x 22 mm
Weight of Main Unit	173 g (with Battery, without Adapter)
Weight of Wireless Sensor	32 g

ADAPTER TECHNICAL SPECIFICATIONS

Manufacturer's name or trade mark, commercial registration number and address:	DONGGUAN SHIJIE HUAXU ELECTRONICS FACTORY, Commercial Registration Number: 440429543, Address: No.200, Technology East Road, Shije Town Dongguan City, Guangdong, P.R.China
Model identifier:	HX075-0501200-AG-001
Input voltage:	AC100–240V
Input AC frequency:	50/60Hz
Output voltage:	DC5.0V
Output current:	1.2A
Output power:	6.0W
Average active efficiency:	≥75.00%
Efficiency at low load (10 %):	71.17%
No-load power consumption:	≤0.1W

INSTRUCTIONS AND INFORMATION ON THE DISPOSAL OF DISCARDED PACKAGING MATERIALS
Take the packaging material to a collection yard for disposal.

DISPOSAL OF DISCARDED ELECTRICAL AND ELECTRONIC EQUIPMENT

This symbol on the product, accessory or packaging indicates that the product must not be treated as normal household waste. Please dispose of this product in a collection yard designated for the recycling of electrical and electronic equipment. In some EU countries or in some European countries, you can return your products to your local retailer when you buy an equivalent new product. Correct disposal of this product helps save valuable natural resources and prevents possible adverse impacts on the environment and human health that might be caused by improper waste disposal. Please contact your local authority or the nearest waste collection yard for further details. Improper disposal of this type of waste may be subject to a legal fine.

For companies in the European Union
If you need to dispose of electrical or electronic equipment, ask your dealer or supplier for the necessary information.

Disposal in countries outside the European Union
To dispose of this product, please ask your local authorities or dealer for the necessary information on correct disposal.

This product complies with EU requirements.
FAST ČR, a. s. hereby declares that the radio device type SWS 4100 complies with Directive 2014/53/EU.
For full version of the EU declaration of conformity, please refer to the website: **www.sencor.cz**
Changes in the text, design and technical specifications may be made without prior notice and we reserve the right to make such changes.
The original version is in Czech.
Manufacturer: FAST ČR, a.c., U Sanitize 1621, Rican 251 01, Czech Republic
Authorized service centers: Visit **www.sencor.com** for detailed information about authorized service centers.
Warranty conditions
Warranty card is not a part of the device packaging.
This product is warranted for the period of 24 months from the date of purchase to the end-user. Warranty is limited to the following conditions. Warranty is referred only to the customer goods using for common domestic use. The claim for service can be applied either at dealer's shop where the product was bought, or at below mentioned authorized service shops. The end-user is obligated to set up a claim immediately when the defects appeared but only till the end of warranty period. The end user is obligated to cooperate to certify the claiming defects. Only completed and clean (according to hygienic standards) product will be accepted. In case of eligible

warranty claim the warranty period will be prolonged by the period from the date of claim application till the date of taking over the product by end-user, or the date the end-user is obligated to take it over. To obtain the service under this warranty, end-user is obligated to certify his claim with duly completed following documents: receipt, certificate of warranty, certificate of installation.

This warranty is void especially if apply as follows:

- Defects which were put on sale.
- Wear-out or damage caused by common use.
- The product was damaged by unprofessional or wrong installation, used in contrary to the applicable instruction manual, used in contrary to legal enactment and common process of use or used for another purpose which has been designed for.
- The product was damaged by uncared-for or insufficient maintenance.
- The product was damaged by dirt, accident of force majeure (natural disaster, fire, and flood).
- Defects on functionality caused by low duality of signal, electromagnetic field interference etc.
- The product was mechanically damaged (e.g. broken button, fall).
- Damage caused by use of unsuitable media, fillings, expendable supplies (batteries) or by unsuitable working conditions (e.g. high temperatures, high humidity, quakes).
- Repair, modification or other failure action to the product by unauthorized person.
- End-user did not prove enough his right to claim (time and place of purchase).
- Data on presented documents differs from data on products.
- Cases when the claiming product cannot be identified according to the presented documents (e.g. the serial number or the warranty seal has been damaged).

Manufacturer:
FAST ČR, a.s., U Sanitasu 1621, Říčany 251 01, Czech Republic
Visit **www.sencor.com** for detailed information about authorized service centers.
The original version of the instructions is in the Czech language, other language versions are made by the appropriate translation.

Documents / Resources

SENCOR SWS 4100 Color Display Weather Station [pdf] User Manual
SWS 4100, SWS 4100B, SWS 4100 Color Display Weather Station, Color Display Weather Station, Display Weather Station, Weather Station, Station

References

- ☞ **Fast Poland | Strona gÅ‚Ã³wna**

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